# G. Donald Harrison A Study of Several of his Orgian Deeigns 

by Ann L. Vivian

There can be no doubt about the fact that the organ building of George Donald Harrison, as carried on in America from 1932 to 1956, constitutes what is now acknowledged as a turning point in the history of American organ construction and design. It was Harrison, along with Walter Holtkamp, who was responsible for the development of what is now known as the "American Classic" organ. Working under separate auspices,' the two men responded to the need for reform in American organ building with different, yet related, results. Lawrence Phelps makes this comparison of those two great builders:

If reduced to words, the goal that motivated Holtkamp was quite like that of Harrison - to produce a kind of all-purpose instrument - but Holtkamp was willing to work in a much smaller frame; he was much more selective in what he felt was worthy literature and made no pretense whatever that his instruments were suitable for the larger Romantic works. Thus Holtkamp's instruments rarely had an enclosed Positiv or Choir, and rarer still are his instruments with more than three manual divisions. The rather large differences apparent in the sound of their work is due mostly to Harrison's natural English love for breadth of tone and a smooth tonal finish, in contrast with Holtkamp's determination to let his well-designed pipes speak for themselves without any attempt to make them conform to a pre-determined norm. In this respect, at least, Holtkamp's philosophy was closer to that of good classical practice, even if his fundamental voicing technique was not substan tially different from that used by Harrison. So far as voicing of the individual pipe is concerned, the difference was one of degree rather than method. ${ }^{2}$

We would like, in this essay, to take a brief look at some of Harrison's most significant organ designs, but before so doing, we would like to mention some of his background, which his son, J. Michael Harrison, has so kindly provided for us:

George Donald Harrison qualified as a patent agent (patent attorney) and joined his father's (George Harrison) firm briefly. He couldn't stand being "his father's son" and had his father purchase a partnership in the Willis firm. GDH came to this country mainly because there was little future for him in the Willis firm, there being "Henry Willis IV" on the way. Also, the opportunities for building organs were much greater in this country than in England.
(Continued, page 4)


# A New Wedding Processional of Jean Lanğlais 

by Douglas D. Himes

Few contemporary composers for the organ have undertaken the task of writing wedding processional music. ${ }^{1}$ Jean Langlais's Esquisse Gothique No. 1 is, consequently, a welcome addition to the repertoire. While studying with Langlais in the spring of 1975, I had the opportunity of discussing with him suggestions regarding music for my forthcoming wedding in the fall of that year. During that discussion, he offered to write, as a wedding gift, the processional for the ceremony. "We will make sit an homage to Chopin," he said, intoning the opening bars of Chopin's Funeral March. Profusely thanking him for his gracious offer, I returned to this country, not knowing quite what to expect. Several months later, following his summer vacation in Brittany (where he does much of his composing), Langlais sent the work destined for use as the wedding processional. ${ }^{2}$ The result of his offer was a refreshing, stunningly unique - sans Chopin, incidentally - contribution to an im-
portant segment in the repertoire of every organist.
That summer, Langlais had set out to write six pieces based on ancient Gregorian melodies. These works became the Trois Esquisses Romanes, ${ }^{3}$ based on plainchants dating from the tenth and eleventh centuries, and the Trois Esquisses Gothiques, ${ }^{4}$ based on chants dating from the twelfth and later centuries. The wedding processional - while not designated as such in the published score - is the first piece in the latter collection. Though not appearing in the manuscript used for the first performance, an indication for the use of a second organ ("avec $2 e$ orgue ad lib.") was added before the publication of the work. ${ }^{5}$ This does not, however, preclude the use of only one organ. The piece may be played quite effectively on a single instrument with as few as two manuals, making it practicable in any but the most limited of circumstances.
(Continued, page 16)

## Spanish Keyboard Ornamentation 1535-1626

by Calvert Johnson

Spain was in its Golden Age in the 16 th century. Isabel and Ferdinand had united Christian Spain and expelled the Moors from the Iberian peninsula; Columbus had discovered new gold-rich lands in America. Under Charles V, Spain was the political leader of the known world, her king also controlling Germany, Netherlands, Belgium, much of Italy, America, and parts of Africa.
This wealthy, powerful country attracted musicians from all over Europe. Opportunities were great, both at the courts and in the many competing cathedrals. A profusion of excellent native Spanish composers and performers began producing some of the greatest Renaissance music. In this environment the first important Spanish "school" of keyboard players developed. Many collections of keyboard compositions were published, as were treatises pertaining to keyboard technique and performance practices. One of the most important qualities of keyboard performance was ornamentation.
The purpose of this article is not to define a "common practice" of ornamentation in the period under consideration, but rather to describe the wealth of possibilities which were written down in some form in early Spanish sources. Mention is often made in these writings of ornamentation practices of other musicians. These practices are as often supported as condemned. Obviously, comments by a theoretician apply most accurately to his own compositions, but with care can be applied to other composers' works as well. For example, Antonio de Cabezón examined Santa Maria's treatise, and Venegas included many compositions by Cabezón in his collection.

Quiebro and Redoble are the general terms used to describe ornaments in Spanish keyboard treatises of the 16th and 17th centuries. Actually, the two terms are used interchangeably for a wide variety of ornaments, since theoreticians and composers differed greatly in their basic definitions. Shakes (trills), prefixed shakes, mordents, inverted mordents, turns, and even grace notes appear in the descriptions. Juan Bermudo excluded a description of ornaments in his 1549 edition of the Declaracion de Instrumentos musicales, although he included them in the 1555 expanded version. The reasons for the carlier omission were that the fashion of playing ornaments changed daily, and because current methods of performing could not be notated. ${ }^{1}$

There are also considerable differences in terminology for identical or (Continued, page 12)

Our 1978 publishing year, the sixty-ninth continuous one in which this journat has appeared, begins with an eclectic issue. Articles on G. Donald Harrison, Spanish Renaissance keyboard ornamentation, a new Langlais work and German Romanticism all make up a curious but interesting collection. Each has been carefully prepared by an authority in the field, and we hope you will find something of interest in each.

Compiling the annual index, which appears at the end of this issue, is always a good excuse to reflect on the past year, which was a busy one. There was no shortage of news and varied articles and reviews, as reported in these pages, and we look for more in the future. The state of the economy and the rate of spiraling inflation notwithstanding, it looks as if it will be another year full of activity for the organ world. Among features you may anticipate from The Diapason will be the continuation of Dorothy Holden's series on E. M. Skinner, Douglas Butler's survey of Mendelssohn organ works, technical papers from the recent AIO convention, and usual news, stoplists, letters, reviews, calender information, and classified advertisements. In all these things, our staff will look forward to your continued support and interest.

## Music for Voices and Organ

## by James McCray

## Antherns for General Use

In recent issues this column has provided special articles about choral music in three parts (SAB), music for special intuations such as weddings, funerals, situations such as weddings, funerals,
etc., and music for the Advent and Christmas Seasons. This month our atChristmas Seasons. This month our at-
tention is given to anthemes which serve tention is given to anthems which serve a general use. An attempt has been
made to review anthems of varying levels of difficulty.
o Clap Your Hands. Robert J. Powell, G.I.A. Publications, G-2088 45q, Unison and organ ( E ).

Although the manuscript cover indicates unison, there are two brief areas where two parts are employed canonically. No tempo marking is given, but the character of the music and text suggests a brisk, driving pace. Neither the organ or choral music is difficult. Powell uses an ABA format with the middle section in $5 / 4$ with sustained open harmonies in the organ and a chantlike melody for the voices. The Dorian modality is especially attractive.

Break Forth Into Joyous Song. Kent A. Newbury, Hope Publishing Co., A 488, SATB and keyboard ( $\mathrm{M}-$ ).
The keyboard will work better for piano than organ, although it could be ceasily adapted to the organ. This Psalm setting is exuberant and has an exciting rhythmic personality. The harmonies use many fourths and fifths; the chorus freely moves in and out of unison passages. Full vocal ranges are used son passages. Full vocal ranges are is a with the majority of we and the organ homophonic texture, with the organn
contrasting by using busy eighth note contrasting by using busy elghth-note
plirases. This anthem will thrill and plirases. This anthem will and if perimpress the congregation, and if per-
formed well, it will probably be one formed well, it will probably be one
that will soon be requested as a repeat that will soon be requ
by the singers as well.

Song of Hope. John Ness Beck, Hinsong of Hope. John Ness
shaw Music linc., HMC.233, 50q, SATB and organ ( $\mathrm{M}+$ )

There are two main sections to this extended anthem of 12 pages lengut. After a slow and sensitive first half, the mood and tempo change to one of rhythmic drive and celebration. Much of the fast half has unison choral areas, whereas the slower first half usually has a block chord four-part texture. This anthem would also work very well as a festival piece for large choral festivals, and would be particularly attractive to those directors working with high
sclool choirs. The accompaniment is not difficult but maintains interest throughout. It is also scored for full orchestra and those parts are available from the publisher on a rental basis.

Lord, Make Me An Instrument of Thy Peace. John Joubert, Oxford University Press, $42.398, \$ 1.50$, SSAATTBB and organ ( $\mathrm{D}-$ ).
joubert has established himself as one of the leaders in British choral music and many of his settings have become standards in the church repertoire. This new anthem, Op. 84, was composed for Peter Hurford and has a duration of five minutes.

The organ material is on three staves and while not overly difficult, will require a sensitive performer with good
echnique. The choral music has a variety of textures; however, often the notes are doubled in the men's and women's sections, so that the eight parts women's scetions, so that the eight parts for polyclurdat harmonics, athough for polvchordial harmonics, athough these sometimes octar too, usually in the form of enate chords. The tempo is slow and the owerall mood is contemplative in nature. Full voice ranges are nsed and a moterately large chorus of about 40 voices would be recom mended for effective performance and balance. The dramatic outbursts and rapid changes of dynamics add to the spirit of the work. This is yet another successful composition by Joubert, but recommended only for above-average church clooirs.

Let All Creation, Jean Pasquet, Elkan Vogel, Inc., 362.03233, 40\&, SATB and organ (E)
In this straight-forward homophonic authem the organ merely doubles the choral parts. Before the two verses there is an organ passage which is es-
sentially the same as the accompanisemtially the same as the accompaniment for the opening choral phrases. This is sery easy and could be learned
quickly; it will service most small quickly; it will service most small church choirs adequately.

Sing Alourt. Howard Jones, Novello and Company, No. 29-0380.06, 75q, SATB and organ (D)
Jones has created a refreshing and challenging anthem which employs frequently clanging meters of $10 / 8,12 / 8$, j/B, etc. The harmonies are dissonant at times and the organ music is written on three staves with registration directions for the performer. There are some unaccompanied areas for the chorus whose material is often noticeably contrasted with that of the organ. This is a sophisticated anthem that shows fine craft of composition and has real musical merit. It is one that will probably be passed over because of its moderate difficulty, yet it deserves to le learat. It is highly recommended to ambitious directors seeking an exciting and rewarding piece of music.

Mannheim 87.87.87. Charles Wuorinen, C. F. Peters Corp., 66550, Unison and organ (E)
The title may be misleading but the text is sacred and taken from the Episcopal Hymnal. This is a slow and moderately dissonant anthem in which the vocal line is always doubled by the organ. It has a peculiar attractiveness orgai which creates a hauntiog mood There are only two pages and although There are only two pages and although
it is not indicated on the score, this is it is not indicated on the score, this is
a dodecaphonic work employing serial a dodecaphonic work employing serial
techniques. The first phrase uses all techniques. The first phrase uses all
twelve notes of a row, as does the second twelve notes of a row, as does the second
phrase in a transposition level of a phrase in a transposition level of a
major second. The third phrase begins a retrograde version, etc.
Although this may not be immediate. l) acceptable to many church choirs, it will leave the congregation with a quiet serenity and certainly communicates a calm prayer of hope.

# THE DIAPASON 

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by Calvert Johnson

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## REPORTS AND REVIEWS

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by Gerald Frank

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## NEWS

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## Competitions

The Corpus Christi Young Artist Contest, sponsored by the music teachers' as sociation of that city, has been announced for March II at Dei Mar College. Com peting divisions include piono, organ harp, strings, and woodwinds. The firs place winner in each division will receive a $\$ 100$ cash prize, with a $\$ 50$ prize goin to the second place wianer. Entries must be received by Feb. 11; for further information, contact Marsho Perkins Lazo 622 Doddridge $C_{\text {r., }}$ Corpus Christi, TX 78411, (512) 853.5901.

The Haarlem International Organ Im provisation Contest has been announced for July 6, when four competitors will be invited to compete on the famous 1735-38 Müler organ in the Bavokerk. Applications must be received by February I and must include a tape recording of 2 recent improvisations, one free (of 5 minutes' duration) and one on a given theme which will be provided on request. Further in formation is available from Stichting In ternational Orgelconcours, Stadhuis, Haarlem, The Netherlands.

Strader Competitive Scholarships in Organ will be available for the 1978-79 oca demic year at the University of Cincinnati Applications and preliminary auditions are due by March 1 ; all incoming organ students at the university are eligible to com pete. Finolists will be invited to the cam pus on April I. For applications and in formation, write Mr. W. Harold Laster, As sistant Dean for Admissions, College.Conservatory of Music, University of Cincin nati, Ohio 45221, or phone 513/475.6638.

## Letter to

## the Editor

To the Elitor
My thanks to Robert S. Lord for his article Charles Tournemire \& The Seven Words of Christ on the Crass. I've always been strongly moved by the deep, mystical and complex music of Tournemire and other French composers. Unfortunately, in school, we were usually given Germanic works full of form, fugatos, itmitation, canon, passacagliae, and other contrapuntal devices. The French or Latin music was strictly outlawed. So it is a dotble pleasure to see such an article.
On the contrary, the composition is not "rarely heard." Your readers may e interested in a recent recording (1973) by Canada's own André Méri-EMI-HMV label \# A 2 C 065-12169, EMI-HMV label \# A 2 C $065-12169$,
readily enough available if the local readily enough available if the local record dealer is prodded enough. It is performed on the great St Enstache organ in Paris and comes across very well indeed. I feel quite fortunate in having a copy.

Gratefully yours,
Paul Morel,
Church of St. Saviour
Toronto, Canada

## The Nebraska Conference on the 0rgan and German Romanticism

In recent years the organ world has engaged in a reappraisal, with extensive practical ramifications, of matters pertaining to Baroque performance practice. The same type of examination of the 19th- and early 20th-century German organ and its music and practi-
tioners promises to summon our attention in the near future, if one perceives correctly the experience of the forty participants in the conference on forty participants in the conference on conducted at the University of Nebraska in Lincoln, October 6-8. The conferin Lincoln, October 6.8. The conference was one of those events which
leaves the attendants exhilarated and leaves the attendants exhilar
exhausted, yet eager for more.
Led by Wayne Leupold of Syracuse, Ni.l., and Robert Scnuneman of the
New England Conservatory, the sessions New England Conservatory, the sessions
contained a wide array of approaches to and information about the matter at hand. The conlerence opened with a presentation by Mr. Schuneman on the aesthetic milieu of the organ in the 19 th century and proceeded to a discussion of the instrument's structure in GerMr. Schuneman's evening class on principles of registration, Mr. Leupold presented an organt recital. The second day was devoted to lectures in which Mr. Leupold discussed the "conservative performers and their practices, with application to the organ, as well as postapplication to the organ, as well as post-
romanticism in the German organ world. The day concluded with a recital by Mr. Scinuneman. The final day cital by Mr. Scmuneman. The final day of the conference onered Mrister classes, with a closing panel discussion which
served to coalesce many points made served to
previously.

111 ins mitial lecture, Mr. Schuneman dispelied the notion that the 19th-century German organ was the decadent a la cinating once glorious instrument. In of the time, Mr. Schuneman traced the severance of the organ Irom the musical mainstream with the emergence of romanticism. As the 18 th-century church romsulated itself from those philosophiinsulated developments which it considered theorogicalty suspect, the organ became associated with the sacred In a new dichotomy with the secular. In the 19th
century, therctore, for many composers century, therciore, for many composers
the organ came to possess a specific aesthetic association with that which
was sacred or other-worldly. The rhetwas sacred or other-worldly. The rhetoric of the organ was separate from, and
simultancously part of, a larger rhetoric. Among the works with which Mr. Schuneman demonstrated his point were Mendeissoln's Reformation Symphony (chorale statement), Schumann's Rhenish Symphony (timal movement) and er and Pilgrim's Chorus). Mr. Schuneman also cited several composers who man also cited several composers who
were trapped by the new division of were trapped by the new division of Liszt, whose compositions (such as the organ mass) became undistinguished after his acquiescence to the church.
In the midst of this aesthetic up-
heaval, important developments in the heaval, important developments in the
art of organ building took place. Folart of organ building took place. Folprinciples by Vogler, the attempt by Sorge to formulate the scaling and
weight of pipes and the inescapable influence of Bedos, Töpfer produced his "normal scale" from which everything else was determined. Whereas variable scaling had previously been employed for acoustical reasons, most 19 hl -century buiders did not vary pipe scales. Because the scale of the pipes in the
system of the "normal scale" was narrower in the lower registers than in the higher registers, the dynamic strength increased as the notes of any given increased as the notes of any given
rank ascended. Consequently, a melody could always be heard in the top voice, regardless of texture. The multiplicity
of $16^{\prime}$ and $8^{\prime}$ stops resulted in a sound of $16^{\prime}$ and $8^{\prime}$ stops resulted in a sound
which was neither muddy nor opaque; rather, the 19th-century organ possessed a certain weight and gravity previously unknown.
An examination of numerous specifidemonstrated those developments, from the work of Gottified Silbermann through that of Wilhelm Sauer, which

Riic it was. The abandonment of the tontal rather the emphasis on a hertical arrangemen of the case, the growing abundance of $8^{\prime}$ stops, the introduction of new types of chests, winding systems, actions and registration aids, the use of tuning registration aids, the use of and created an instrument which was capable of employing the immensity was capable of employing the immensity
of stops available to effect a sound both of stops available to e
weighty and lustrous.
weighty and lustrous.
From this discussion it was a simple matter for participants to make the transition to Mr. Schuneman's lecture on registration. Among the many points made were two cardinal rules consistent-
ly stated in 19th-century registration ly stated in 19th-century registration instructions: first, that the fundamental
( $8^{\prime}$ manual, $16^{\prime}$ pedal) is the predomi( $8^{\prime}$ manual, $16^{\prime}$ pedal) is the predomi
hant pitch to be heard (unless specified otherwise by the composer) ; second that no gaps are to be lett in the over tone series (unless specified otherwise by the composel). Three categories of stops were delineated: 1) foundation voices
(unison and octave multiples); 2) Iill(unison and octave mic corroborating pitches between unisons and octaves) which were employed only when the octave above was also used; and 3) mixtures, used after all other flue stops were employed. 8's were used in mulwere emplojed. 8 s were used, thus ef tiples betore t's were added, thus erfecting a pyramidal building of sound
The resultug method of crescendo exThe resultang method of crescendo ex plains why registration was indicated
by dynames, as in the preface of Menby dynamics, as in the preface of Men
delsoohn's organ sonatas, rather than by specitic stops. When composition pedals were employed, they engaged stops in a pyramidal fashion. No single 8 stop dominated the others; rather, the addition of a stop would color the sound. Among the registrational probJems expountaed upon by Mr. Scnuneman were special registrational effects (use of $16^{\prime}, 8^{\prime}, 5-1 / 3^{\prime}$ for dark weight in chorale preludes concerning penitence or death), the nature and use of reeds (which could also be added in a pyramidal order), the use of the tremulan (applied onty to one reed in most specifications), undatating stops (of wide
scale in Germany), the swell box and scale in Germany), the swell box and
register crescendo the use of which register crescendo (the use of which
varies with Reger, Brahms and Menvaries with Reger, Brahms and Men-
delssolni), and combinations and ventils. Mr. Schuneman's article in the September, 197!, issue of Music (with a speci fication correctly reprinted on page 56 of the November, 1972 , issue) ofters detailed explanation of the subject.
Each of Mr. Schuneman's lectures was forthright and clear, demonstrative of a thorough and thoughtful knowledge of the subject matter. In lis presentations he was
The lectures by Wajne Leupold on the second day of the conference shifted attention to the music itself. Mr. Leu pold has achieved an amazing accom plishment in culling a significant amount of performance directions from a vast number and variety of sources. Most of these directions have been docu mented by Mr . Leupold in recordings of performers either in live perfor-
mance or via player mechanisms. Each mance or via player mechanisms. Each
recording which Mr. Leupold has utilized was made by an important artis of the time, many having also been students of Clara Schumann, Franz Liszt, et al. Mr. Leupold showed transparencies of each recorded piece in which he had used a marking system to delineate specific aspects of the performance.
Mr. Leupold began by making the point that we are now far enough removed from the 19th century, both clironologically and emotionally, that we can no longer rely on intuition or memory of "how it was done" to serve our efforts to achieve truly stylistic per formances. To study 19th-century per formance practices, Mr. Leupold has relied upon the division of the 19 th century into "conservative" and "liberal" schools, the former including Mendels sohn, Schumann and Brahms, the latter school being Liszt and Wagner with their adherents.
For both schools, the point of departure was the preeminence afforded bel canto singing and the attempt to emulate that style in keyboard perfor ing sources such as Manuel Garcia's

Art of Singing and Isaac Nathan's Mu surgia Vocalis to define such importan elements of bel canto singing as porta mento and messa di voce. The style was then demonstrated in Adelina Patti's recording of "Yoi che sapete" from Mozart's Marriage of Figaro.
From this discussion Mr. Leupold directed attention to two kinds of rubato which he classified as "melodic" and "free." Melodic rubato, used by voca"free. Melodic rubato, used as well as keyboardists, consists of a melodic line freed rhythmically from its accompanying voices. In free rubato the melodic and accompanimental voices deviate simultaneously from a strict beat. One of the most important points to emerge from Mr. Leupold's discussion and the playing of recordings of Chopin piano works was that the members of the "conservative" school employed a vast amount of melodic rubato.
In his session on the romantic German organ, Mr. Leupold reinforced many of the points made carlier by Mr. Sclumeman and cited especially the instruments made by the five most significant German builders of the time: Walcker, Ladegast, Reubke, ${ }^{\circ}$ Sauer and Schulze. Mr. Leupold went further to distinguish the details in which the German and French 19th-century organs mant and French 19th-century organs
differed. Among those points concerndiffered. Among those points concern-
ing the German organ: it tended to ing the German organ: it tended to
retain a complete principal chorus in retain a complete principal chorus in
each manual; ventils were split evenly each manual; ventils were split evenly
by pitch (to help control provlems with ciphers) ; a complete scheme of mutations was present; and only staged crescendoes were available until the 1850 's.
Turning to composers, Mr. Leupold mentioned several aspects reported about Mendelssohn's own performing - that he was adamant about adhering to the score, that he used little ritardando or rubato, and that he made no registrational changes within movements. The swel! available to Mendelsmehnts. was an unbalanced hitch-down pedal. Trills were probably begun on pedal. Trilis wain note.
Rheinberger, a rather reactionary person who had no use for Liszt or Wagner, played the fugues of Bach on one manual with little registrational change. For Rheinberger as well as Mendelssohn, registration indications consisted of dynamic levels: $f f=$ full organ, $f=$ the same without mixtures, $m f=$ principals $8^{\prime}$ and $4^{\prime}$ or full secondary manual, $p=$ two or three $8^{\prime}$ 's and $4^{\prime}, p p$ $=$ salicional, gamba or acoline $8^{\prime}, p p p$
$=$ the softest $8^{\prime}$. The pedal should be "prominent."
By contrast, dynamic indications in Brahms signify different manuals.

Turning to the "liberal" school of performers, Mr. Leupold cited in recording and writing numerous students and followers of Liszt. Among the sources employed were the Catechism for the Organist (containing registration guides) and Technical Studies for the Organist (concerning the vocal slaping of lines in organ playing), both by Hugo Riemann, and The Art of Free Organ Playing by Bönicke, the first teacher of Julius Reubke.
A discussion of post-romantic German organ building, in which an orchestral approach to the instrument was dominant, included organ recordings by Reger on a player mechanism and of Straube conducting the St. Thomas' Church choir. The capstone of Mr. of Liszt's student Alfred Sittard playing the fugue and finale from the id nos ad salutarem undam Fantasy on the mammoth Walcker organ in St. Michacl's Church, Hamburg. What was most amazing in this performance was not only the rhythmic abandon, but especially the textual freedom assumed
by Sittard in the interpolation of stunby Sittard in the interpolatio
ning cadenza-like passages.
The sheer amount of work done by Mr. Leupold in singling out pertinent information from the vast resources, not to mention his determination in locating all that he has found, is absolutely staggering and of no small sig. nificance. He is to be commended for undertaking a project of this scope so successfully and with such useful deductions. At the same time, some further tightening of the material and con-

## a review by Gerald Frank

ciation might make his presentations both more relaxed and commanding. The two evening recitals featured o show not only German music of the 19th century, but also music which grew from Germanic intluences. The program consisted of the Prelude in $B$ Minor, John Knowles Paine; Sonata in $G$ Mijohn Knowles Paine; Sonata in G Mijor and Pater Noster, Arthur Foote; six Chorale Preludes (nos. 3-7 and 9), six Chorale Preludes (nos. 3-7 and 9),
Op. 122, Brahms; and the Allegro of Symphony VI, Widor. Mr. Schuneman's program the following evening included Brahms' Prelude and Fugue in G Alinor, s well as the five Chorale Preludes of Op. 122 remaining from the previous evening to complete the set; two Meditations (nos. 3 and 9) of Op. 167, Rheinoerger; three Chorale Preiudes (nos. 25, 14 and 33), Op. 67, Keger; and Liszt's Prelude and Fugue on B.A.C.H.
Some of the intentions of the performers were clear only after the lecwhe sessons the conference. Both Mr. Schuncman and Mr. Leupord uxed melodic rubato in the Brahms chorale preludes, and both sought to acnieve a spontancous effect in doing so. The varying aegrees to which they applied this form of rubato reminced onte of the question of taste and degiee in the the question of taste and degree in the plication of metodic rubato was to a great enough degree that cantus firmus notes occurring aiter the beat became suspensions while c.f notes falling before the beat sounded as anticipations. Mr. Schuneman's use of metodic rubato, on the other hand, was much more tightly bound and subtle. The imporant principle in applying such auvato, emphasized in mir. Leupold's discussion, is that a melody noets occurring prior to its accompanying voices heightens a feeling of accelerando, whereas a metody note's falling aiter the beat supports a ritardando.
In recital performance and later commentary, Mr. Schuneman treated no. 4 of the Brahms chorate preludes in a manner in which the arpeggiated notes vere sustained as indicated by the slurtechnique, the effect of such holding technique, the effect of such holding
is to lieighten the top notes, which are is to lieighten the top notes, which
derived Hom the chorale melody.
The delicate subject of the use of accelerando and ritardando was discussed by Mr. Leupold in his class and related to the wortuy Tinel Sonata. The piano methods of Karl Czerny and Adolph Kullak, portions of which Mr. Leupold inctuded in his packet of source materials, comment at length upon the importance and dificulty of achieving a proper use of tempo Iluctuations. Mr. Leupold stated that, in addition to aspects of line and mood, ritardando is virtually synonymous with a decrease in sound while, conversely, accelerando usually accompanies a crescendo. He demonstrated a convincing use of accelerando in the Wagnerian sweep of the rising line of the lirst movement of the Tinel, with ritardando at appropriate places.
A different aspect of accelerando was espoused by Mr. Schuneman in the master ciass, with the performance of Schumanu's Fugue No. 1 in B-Flat on B.A.C.H. Mr. Schuneman showed that, when the fugue is begun at the proper empo and accelerated in the proper manner, the pedal entrance of the sub ject in augmentation will occur at exactly the same tempo as the initial

## G. Donald Harrison

(continued from p.1)
GDH had two sons by his first wife, Dora G. Harrison (Lang), Stephen and myself. After the divorce, my mother married Henry Willis III, making Willis my stepfather. Willis wanted me to join his firm after the war - but I came to this country and worked briefly for Acolian-Skinner.
GDH worked on a number of interesting organs while he was with Willis, including Liverpool Cathedral and Stonyhurst College. He certainly brought to this country a love of massive sound in large open spaces as found in English cathedrals - and he always worried about the bad acoustics which are often found in U.S. churches.

GDH came from a long line of independent and inventive people. His grandfather and great grandfather were active in the cotton industry in the north of England, being responsible for many techmical advances. A forebear was the Harrison who inented the first chronometer that allowed the measurement of longitude at sea ( 18 th century).
GDH was greatly influenced by the wo Schuize organs in England. I GDH worked on a number of ineresting organs while he was with Willis, including Liverpool Cathedral and Stonyhurst College, He certainly pent a couple of days playing with he Schulze organ at Armley (in Lancs), and it certainly was a mag. nificent instrument - even though the snow was coming through the church roof and landing gently on the instrument. ${ }^{\text {a }}$

Interesting to note is Henry Willis description of how Harrison happened o leave the willis firm to come to America in 1997:

Don Harrison, my pupil and close friend, was trained as an engineer and passed his exams as a patent-agent but the organ was his line, and he came to me, and, with instinctive ability, soon became my right-hand man.
Following my comparatively short annual visits as consultant to the then Skimner Organ Co. in 1924, 1925 and 1926, it became obvious that if progress was to be effectively made it was necessary for one with the right technical knowledge and ability to be appointed to carry on the good work. On my recommendation Don Harri on joined the Skinner Organ Co in 1927, rising from the position of assistant technical director to presi dent within a few years.

Farrison and E. M. Skinner had se ere disagreements about organ design, however, so that eventually Skinner jeft the firm, later to start a new company in 1935 on the site of the Methuen Music Hall in Methuen, Massachusetts or the purpose of building "authentic' Skinner organs. In the meantime, the original Skimner company had bought the deolian Piano and Organ Compans and the two merged in 1931 to become the Acolian-Stimer Co with Harrison as president and tonal director. ${ }^{\text {b }}$

We will now take a look at several of Harrison's organs: All Saints' Church Worcester, Mass.; St. Jolin's Chapel of the Groton School, Groton, Mass.; the Church $_{1}$ of the Advent, Boston, Mass, the Busch-Reisinger Mfuseurn of Germanic Culture, Harvard University Cambridge, Mass.; the Worcester Ar Museum, Worcester, Mass.; and the Mormon Tabernacle Organ, Salt Lake City, Utah.
All Saints' Clurch in Worcester is a large gothic edifice rebuilt within the walls of the original church which was destroyed by fire in 1932. Seating approximately one thousand people, it interior is built of stone, which is a relatively rare occurence in America architecture. Its chancel is spacious, and the organ chamber is situated on the left-hand, or north side of the chapel and is elevated about twenty feet.
The organ chamber is surrounded by two stone grills, through which the sound passes of the chancel side and on the side of the north transept and aisle. The stone grills, successful both acoustically and aesthetically, and de signed by architect $H$. Leland Chandle after the screens of the Chantry of

G. Bonald Harrison (e.7929)

Prince Arthur in the Worcester, Eng land, Cathedral, liad a large percentage of free space worked into the design thus offaring one solution to the con troversy of having an organ screen with ro pipes visible versus an orgn cas with showing pipework

The console is on the south side of the chancel, in an alcove in the wall the chancel, int is are the organ pretly much with lis left the organ prety much with his lef car. As A. Mhompson-Allen pointed out, it is irowe and also a shame tha it is no one bir the ormita fers when such space limitations are imposed

The design of the organ was initially English when Harrison began design ing it in 1933 (although it represented the first organ with French reeds exclu sively), but it has gradually becounc more French and German clasiic throughout its changes up to 1951.

Thompson-Allen in 1951 described the Great, Swell and Pedal ensembles as ". . . . indescribably grand . . . the unique scaling of the llue work and the style of the voicing treatment here applied, coupled with light-pressured reed voicing employing the French typ of parallel eschallot, transforms the specification . . . into something res plendant. The general tone quality is really neither English, French, nor Ger man, although it is flavoured by the latter styles. The brilliant flue work blends with and glorifies the free-toned quality of the reed work, and when the Bombarde ensemble is added, the lucu lent grandeur of the superstructure is further embellished."
In an articie written in 1953, Henry Willis criticized the organ. Although Willis considered it to be one of Harrison's best as it originally stood, he had this to say about the changes that were made in the instrument later:

Acolian-Skinner in 1934 built a fine four-manual organ - a well designed and voiced instrument with a Solo organ including a Diapason $8^{\prime}$. Octave 4', and Fourniture of seven ranks, Tuba and Clarion, the whole enclosed. A fund exists which, by accumulation, permits of expenditure upon the organ from time to time . . Recently the Solo organ is it stood has been scrapped - the Solo box removed - and a Bombarde division with $16^{\prime}, 8^{\prime}$, and $4^{\prime}$ reeds and two enormous mixtures in its place. The full organ, already completely adequate without the Bombarde section, is shattering with it; when I heard it at the lands of the accomplished organist William Self, I was nalf-stunned - partly by the colossal avalanche of sound and partly by the mental effort to imagine a reason for it. ${ }^{\text {. }}$
With these two opposing points of view in mind, let us take a look at the specifications of the organ as it existed first in 1934, and later in 1951. Thomp-son-stlen pointed out that the organ is free from all manual extension and the pedal has fourteen open "straight" voices, with only two $32^{\prime}$ extensions and the usual manual to pedal derivations. ${ }^{\text {a }}$ All Saints ${ }^{*}$ Church, Worcester as originally designed by Harrison in 1934:

GREAT
Diapason
Quintaton
Diapason
Flute Harmonique
Gemshorn
Grosse Quinte
Sccond Octave
Wald Föte
3-1/5'
2.2/3'
$2^{\prime}$
$1-3 / 5$
IV
III
Quinte Super Octave
Tierce
Fourniture
Cymbale
Bombarde
Trumpe
Chimes (Bombarde)

SWELL
Flute Conique
Rohrflöte
Viole de Gambe
Voix Celestc
Flauto Dolce
Flute Celeste
Octave Geigen
Flute Triangulaire
Fugara
Super Octave
Cornet
Plein Jen
Bombarde
First Trumpe
Second Trumpet
Second
Oboe
Vox Humana
Clarion
Tremulant

CHOIR

## Violon

Diapason
Lieblich Gedeckt
Duiciana
Unda Maris
Viola
Lieblich Flöte
2/3' Nazard
Piccolo Harmonique
Tierce
Blockflöte
Sesquia'tera
Corno di Bassetto
Trompette
Clarion
Harp and Celeste 61 bars
Tremulant

BOMBARDE
Principal
Flanto Traverso
Gamba
Gamba Celeste
Fournitur
Fourniture
French Horn
English Horn
Trompette Harmonique
Clarion Harmonique
Chimes, 25 notes
Tremulant

## PEDAL

Plein Jeu
Dulzian
Cromorne
Rohr Schalm

## BOMBARDE

Fourniture
Sclarif
Chimes
Bombarde
Trompette Harmonique
Clarion Harmonique
All Saints', Worcester, as it stood in
great
(unenclosed)

Montre<br>Pourdon Principal<br>Bourdon<br>Gemshorn<br>Flute Harmonique<br>Grosse Quinte<br>Octave<br>Rohrföte<br>Grosse Tierce<br>Doublet<br>Tierce<br>Fourniture<br>Cymbale<br>Bombarde<br>Clarion<br>Climes (Bombarde)

SWELL
(enclosed)
Bourdon
Rolur Flöte
Viole de Gambe
Voix Ce Gamb
Flauto Dolce
Flute Celeste
Tute Celcste
Rohr Flöte
Rohr Foote
Fugara
Plein Jeu
Cymbale
Bombarde
Trompette
Hautbois
Vox Humana
Tremulant

CHOIR
(enclosed)
Quintaton
Montre
Viola
ieblich Gedeckt
Dulciana
Unda Maris
Prestant
ieblich Flöte
Nasard
iccolo
ierce

Rohr Schalmei

## (unenclosed)

$16^{\prime}$
$8^{\prime}$
$4^{\prime}$
-

PEDAL
(unenclosed)
Soubasse
Contre Basse
Montre (Great)
Soubasse
Bourdon (Swell)
Grosse Quinte
Principal
Gedeckt Pommer
6-2/5' Grosse Tierc
5-1/3' Quinte
Octave
Flute Harmonique
Nachthorn
Fourniture
Contre Bombarde
Bombarde
Trompette
Chimes (Bombarde)

Next, we turn to a Harrison instru nent built in 1935, at St. John's Cha pel of the Groton School, Groton, Mass is not only considered to be one of Harrison's best organs, but also, one o the first designs in which his "distinctive style came to the fore;'"t it is, fo instance, his first instrument with a I'ositiv. Edward B. Gammons, forme Iusic Master of Groton, who worked with Harrison on planning the design for the organ, comments:

At Groton, Mr. Harrison planned an organ based on the principles of the past, but with a mind fully open to the contributions and needs con temporary and individual, yet admir ably adapted to the building and the us:s of the school. Further, it afford every reasonable timbre and device required for the various schools of or gan literature.
It is a source of pride to the schoo that this organ remained one of Mr Harrisoll's favorites. It many letter he stated that though he might build larger, more brilliant or spectacula instruments, that in the Groto School Chapel would always stand a one of his finest works and perhaps as the one most characteristic of his ideal. ${ }^{12}$
As for the physical distribution of the organ, Mr. Gammons is quick to point out that for the most part, it stands in a chamber which is long and deep which is not an ideal position for an organ. He considers it, howerer, a mas terly use of a very difficult area, and the blend and balace of the division are unusually fine.

The pedal 32' basses stand across the rear wall, and extend along the top of the clamber, from back to front. The $16^{\prime}$ pedal basses and those of the Great $16^{\prime}$, run along one wall, with the two expression chambers situated in two stories, and with the Swell above the Choir. On the upper level, in front of the Swell, is the Great, on two chests. In front of the Choir, stands the upper work from the petal, and the hooded Great Bombarde. The Positiv faces the chancel and partially projects into it from a little gallery which formerly held the console. Finally, the basses from the $8^{\prime}$ Great and Pedal principals are contained in the case from the original Hutchings organ of 1900 . Later, in 1954, an expressive "Processional" Organ was adeled to what had formerly been an unenclosed Processional of two stops.

The console has finally also found its way to where the organ can be heard y the organist on the mave floor, opposite the organ on the other side of the chancel.
As for some of the unusual stops on the organ, Mr, Gammons suggests that the Positiv was the object of some controversy. Arguing that pipe formations are netther adaptations of Willis mutacons, nor smaller in scale than the Ad vent as Lawrence Phelps presumed, thev am instead, based on those presented by Practorius in 1609 Syntagma Muicum: "The four-foot Koppelflöte was he first true stop of that formation made in America, and the low pressure of the two-and-one-half inches was the irst successful proof that the Pitman chest would operate well on such low pressure." ${ }^{24}$
The Choir reeds also suggest inter esting design: the 16 ' English Horn is of true timbre and formation to tenor G, where it merges into a Bassoon bass The 8 Trompette, according to Gamto mind, to those who have ever heard hat Cavaillé-Coll instrument, wherea the $4^{\prime}$ Rohrschalmei added in 1954 is trictly Baroque. ${ }^{10}$
Here, then, is the stop list as it stood in $19511^{10}$

|  | GREAT <br> (unenciosed) |
| :--- | :--- |
| $16^{\prime}$ | Sub-Principal |
| $8^{\prime}$ | Principal |
| $8^{\prime}$ | Diapason |
| $8^{\prime}$ | Gemshorn |
| $8^{\prime}$ | Flute Harmonique |
| $5 \cdot 1 / 3^{\prime}$ | Grosse Quinte |
| $4^{\prime}$ | Principal |
| $4^{\prime}$ | Octave |
| $4^{\prime}$ | Flute Couverte |
| $2-2 / 3^{\prime}$ | Octave Quinte |
| $9^{\prime}$ | Superoctave |
| I.3/5' | Ticrce |
| IV | Full Mixture |
| IV | Fourniture |
| III | Scharf |
| $8^{\prime}$ | Bombarde |

UESTRY PROCESSIONAL (unenclosed) *

| 8 4 4 | Gedeckt Spitzgeigen |
| :---: | :---: |
|  | POSITIV (uncuclosed) |
| $8{ }^{\prime}$ | Rolirflöte |
| 4 | Principal |
| ' | Koppelflöte |
| 2.2/3' | Nasat |
| $\frac{a^{\prime}}{1 \cdot 3 / 5}$ | ${ }_{\text {Terz }}{ }^{\text {Blockiöte }}$ |
| 1 | Sifflöte |
| IV | Cymbel |
|  | CHOIR (enclosed) |
| $16^{\prime}$ | Quintaton |
| $8{ }^{\prime}$ | Viola |
| $8{ }^{\prime}$ | Dulciana |
| $8{ }^{\prime}$ | Unda Maris |
| $8{ }^{\prime}$ | Orchestral Flute |
| $4{ }^{\prime}$ | Lieblichfiöte |
| ${ }^{\prime}$ | Zauberflöte |
| ${ }^{16}{ }^{\prime}$ | English Horn |
| $8^{8}$ | Trompette Harmonique |
| $8^{\prime}$ | Clarinet |
| $8^{\prime}$ | Bombarde (Great) |
|  | SWELL (enclosed) |
| $16^{\prime}$ | Flute Conique |
| $8^{\prime}$ | Geigen |
| $8{ }^{\prime}$ | Viole de Gamba |
| $8{ }^{\prime}$ | Viole Celeste |
| 8 | Echo Viole |
| $8{ }^{\prime}$ | Gedeckt |
| ' | Octave Geigen |
| ' | Fugara |
| $4^{\prime \prime}$ | Flute Triangulaire |
| 2.2/3' | Nasard |
| ${ }^{2}$ | Flageolet |
| 1-3/5' | Tierce |
| III | Mixture |
| 19 | Plein Jeu |
| 16' | Bombarde |
| $8^{\prime}$ | Trompette |
| $8^{8}$ | Hauthois |
| $4^{\prime}$ | Vox Himmana |
|  | Clarion <br> Tramulaut |
|  | PEDAL (unenclosed) |
| $32^{\prime}$ | Contrebasse |
| $16^{\prime}$ | Principal |
| $16^{\prime}$ | Contrebasse |
| $16^{\prime}$ | Rourdon |
| $16^{\prime}$ | Flute Conique (Swell) |
| $8^{10.2 / 9}$ | Grosse Quinte |
| $8^{8}$ | Octave |
| $8{ }^{\prime}$ | Gedeckt (Swell) |
| $8{ }^{\prime}$ | Flute Ouverte |
| 5-1/3' | Quinte |
| $4{ }^{\prime \prime}$ | Superoctave |
| $4^{4}$ | Flute Harmonique |
| $4^{\prime}$ | Klein Gedeckt |
| III | Mixture |
| III | Fourniture |
| $16^{\prime}$ | Bombarde |
| $16^{\prime}$ | English Horn (Choir) |
| $8{ }^{\prime}$ | Trompette |
| $4^{\prime}$ | Clarion |

The Processional Organ was later expanded and enclosed.
We now turn to the Church of the Advent organ in Boston. This, like the Groton instrument, was built in 1935 shortly after E. M. Skinmer had left the firm of Acolian-Skinner. Orpha Ochse suggests that for this reason, these two designs may have represented the first time that Harrison felt completely frec time that Harrison felt ${ }^{\text {to }}$

In his article on "Impressions of Some Organs in the United States" in Th Organ journal of October 1957 (the year after Harrison's death), Thomas Stevens states that the Advent organ ", . . was possibly the finest small modern organ that I have heard . . . The principal chorus ranks have the most excellent color, and what is equally important articulation of speech. The Great, which is reedless, has the most remarkable tierce-sounding mixture alongside two quinte mixtures, which change color at every break in the manual compass, without ever belying the diapason characteristic of the manual, or degenerating into a smooth and full-toned cornet. The Swell and Pedal reeds are a little dry, perhaps to English ears, but they are not bottom heavy, and they have an exceedingly prompt attack. It will be obvious that I was very much struck with this instrument.'י10 much struch

It might be interesting to note here some of the comparisons Ochse makes etween the Groton and Advent organs, especially since they both represent pioneering instruments in Aeolian-Skinner design. First of all, in both organs all the major pedal stops are completely independent; there were originaly no eeds on the Great (by 1951 an 8 Bom barde had been added to the Groton instrument) and they included Harri on's first Positiv divisions
In addition, the Groton and Advent organs each had both $16^{\prime}$ principal choruses on the Great, plus $8^{\prime}$ choruses. Both Swell divisions also included six ranks of mixtures (a Plein Jeu VI at Groton, and a Grave Mixture III and Plein Jeu and a Grave Mixture $I I I$ and Plein Jeu If at Advent) ${ }^{\circ}$ The Sisel Roma $16^{\circ}$ Trompette I $8^{\prime}$ Trompe. D $8^{\prime}$ Clarion , and Vox Humana 80, Harrison also , and the third manual in both cases to used the third manal in both cased posi ccomed Posi iv and an enclosed Choir. The Positiv on both organs were ident the pedal divisions were outstanding in hat the fourteen independent stops o the Groton organ gave it a size comparable to the Great, and the Advent pedal only one stop smaller than Groton in size was even more impressive in terms of the overall organ size, since the Groto had 85 ranks, and the Advent 76. ${ }^{10}$

Let us now examine specifically the Advent instrument. In an article entitled (appropriately) "The Church of the Advent Organ" in the February 1966 issue of The American Organist, Ralph B. Valentine credits the organ with being ". . . noteworthy in that it had a completely 'straight' design highly unusual at the time . . . The only 'untruc' stop in the entire instrument was the pedal Subbass $32^{\prime}$, which because of space limitations, could only because of space limitations, could only
be carried down to low F. (The 16 pedal Bourdon, sounding in fifths, car pedal the tone in resultant style, down ried the towe C .) 'The only 'borrow' was the Swell Lieblich Gedeckt, which was playable at $16^{\prime}$ and $8^{\prime}$ pitches on the playable at $16^{\prime}$ and 8 pitches on the
pedal. Aside from this, each stop was completely independent, and designed for a specific purpose."2

Valentine finds great merit in each division: the Great with its complete set of Principal and Diapason choruses, with ample mixtures, proved Harrison's theory that reeds were not necessary to add fullness. (Gammons claims that Farrison later added the $8^{\prime}$ Bombarde to the Groton Great, since he felt that in such a complete instrument, ther was a proper place for a clear and bril lial unenclosed reed voice to act as a foil to the Swell reeds, and to provide a special climax for certain schools of organ music, and to lead the singing of
lusty congregational lhymns lusty congregational hymns.'2t Ochse points out that although Harrison's "reedless" Greats were sometimes criticized by organists who were reluctant to sacrifice the independence of manuals - which was necessary to couple reeds onto the Great - the instances where a reed appears on a Great in any of Harrison's instruments is relatively rare, and is not typical of his style.) ${ }^{\text {p }}$
To return to Valentine's description of the Advent organ, it might now be interesting to discuss the changes which The place inind instrument in 196\%. he idea behind the renovation was to ing the initial character of the instrum ment. Here, then, are the changes which were made: the Cor de Nuit $8^{\prime}$ and the Rohrflote 4 were added to the Great. The Cor de Nuit stop replaced the old Grosse Quinte 5-1/3', while the Rohrlöte $4^{\prime}$ replaced the Super-Octave 2', which was moved to the same chest as the $2.2 / 3$ ' Quinte, thus forming a Rauschquinte II. The Great mixtures were also "smoothed out and regulated" with the Cymbel III receiving "special attention and recomposition."
A "classic-voiced" 8' woodell Nason Flöte replaced the Rohrflöte on the Posiiv, the latter of which was moved to he Swell at 2-2/3' pitch. Valentine feels hat the Nason Flöte ". . . gave the whole division a new color and drive." The conservative Scliarf IV was replaced by a new one to add ". . . sparkle and charm to the whole chorus." (Valentine mentions that the original Scharf was as conservative and pitched as low as it was at $1-1 / 3^{\prime}$ - since Harrison was cautious in introducing "high-pitched 'screaming whistles' to the eight-footed American public." ${ }^{\prime \prime}{ }^{3}$

A $16^{\prime}$ Quintaton from St. Thomas Church in New York City (which wa Harrison's last) partly replaced the 16 Lieblich Gedeckt on the Swell. Valen tine notes that St. Thomas will neve miss the rank, since by 1956 Harrison' love of Quintatons had gone to such an extreme, that he installed four separate ones on that organ: 16 Quintade on the Great, a $16^{*}$ Quintation on the Choir a $16^{\prime}$ Quintflöte on the Swell, and a 32 Quintaton on the Grand Choeur. A mentioned earlier, the Swell of the Ad vent now also holds a $2-2 / 3^{\prime}$ Rohr Nasat taken from the original $8^{\prime}$ Rohrflöte o the Positiv. The new Rohr Nasat re placed an $8^{\prime}$ Salicional, which was of little use. The two Swell mixtures were ako brightened. Atthough the installa tion of the two Trompettes on the Swel was unique with Harrison, it was not considered very successful at first, since there was little tonal distinction between the two. A revoicing of the Trompette I at the Acolian-Skinner factor in the summer of 1965 has rectified that situation.
As for the Choir, an $8^{\prime}$ Krummhorn replaced an $8^{\prime}$ Viola; the $8^{\prime}$ and $4^{\prime}$ accompanimental flutes were also consider ably brightened.
The pedal was essentially unchanged. Donald Gillette of Acolian-Skinner offered to replace the Grosse Tierce rank ( $3-1 / 5^{\prime}$ ) of the three-rank pedal mixture with a new quint-sounding rank. The two pedal mixtures now form a complete two pedal mixtures now form a complete five-rank quint mixture starting at 2 -
$2 / 3^{\prime}$. The pedal reeds, which were from $2 / 3^{\prime}$. The pedal reeds, which were from
the original Hutchings, were refined in the origi
power.

Finally, the unenclosed Trumpet was moved from the Choir to where it now stands at the west end of the church. When it was first moved in 1964, it was left tonally unclanged, on four inches pressure, and was "hooded" in an upright position. In 1968, however, the rank was revoiced and put in its present horizontal position, under the direction of the organist, Dr. Phillip Steinhaus. ${ }^{26}$
It is interesting to note that plans existed in 1966 (we understand that they have since been modified) for additions to be made to the organ, if funds were to have permitted. The prospective additions included a $32^{\prime}$ Pedal reed, a 16' Classic-type reed for the Choir, a $4^{\prime}$ Rohr Schalmei to replace the $4^{\prime}$ Clarion on the Sivell, some flute replace. Clarion on the Choir and Pedal and ments on the chor and Pedal, and inally, a nine Organ for the rear gallery.
Following, then, is the stop-list for the Advent Organ. The changes which ere made in 1964 have been marked with an asterisk. ${ }^{20}$

## b

|  | GREAT |
| :--- | :--- |
| $16^{\prime}$ | Diapason |
| $8^{\prime}$ | Principal |
| $8^{\prime}$ | Diapason |
| $8^{\prime}$ | Flute Harmonique |
| e8' | Cor de Nuit |
| $4^{\prime}$ | Principal |
| $4^{\prime}$ | Octave |
| $4^{\prime}$ | Rohrlöte |
| $2-2 / 3^{\prime}$ | Rauschquinte II |
| $2^{\prime}$ | Fourniture IV |
| $\mathbf{1}^{\prime}$ | Cymbel |
| $8^{\prime}$ | Sesquialtera IV-V |


|  | POSITIV |
| :--- | :--- |
| $8^{\prime}$ | Nason Flöte |
| $4^{\prime}$ | Principal |
| $4^{\prime}$ | Koppelflöte |
| $2-2 / 3^{\prime}$ | Nazard |
| $2^{\prime}$ | Blockflöte |
| $1-3 / 5^{\prime}$ | Tierce |
| $1^{\prime}$ | Sifflöte |
| $\bullet^{\prime 2 / 3 \prime}$ | Scharf IV |


| -16' | SWELL Quintaton |
| :---: | :---: |
| $8{ }^{\prime}$ | Geigen |
| $8{ }^{\prime}$ | Viole de Gambe |
| $8 \prime$ | Viole Celeste |
| $8{ }^{\prime}$ | Stopped Diapason |
| 4' | Octave Geigen |
| ' | Fugara |
| 4 | Flauto Traverso |
| 2-2/3' | Rohr Nasat |
| $\underline{\square}$ | Fifteenth |
| 2.2/3' | Grave Mixture III |
| 1 ' | Plein Jen III |
| $16^{\prime}$ | Bombarde |
| $8{ }^{\prime}$ | Trompette 1 |
| $8{ }^{\prime}$ | Trompette II |
| 4' | Clarion |
| $8{ }^{\prime}$ | Vox Humana |
|  | (Continued overleaf) |



Pipes of Busch-Reisinger organ (left) and
Donold Harrison at its console in 1949 (right).

E. Power Biggs, Albert Schweltaer and G.
photographs courtesy of John Fesperman, Smilthsonian Institution

## G. Donald Harrison

(continued from $p .5$ )

|  | CHOTR |
| :---: | :---: |
| 8 | Orchestral Flute |
| 8 | Dolcan Celeste |
| 4 | Zauberflöte |
| $8{ }^{\prime}$ | Clarinet |
| ${ }^{4}$ | Krummhom |
| ${ }^{8}$ | Antiphonal Trumpe Tremolo |
|  | PEDAL |
| 32' | Sub Bass |
| $16^{\prime}$ | Principal |
| $16^{\prime}$ | Contre Bass |
| $16^{\prime}$ | Bourdon |
| $16^{\prime}$ | Quintaton (Swell) |
| $8{ }^{8}$ | Principal |
| $8{ }^{\prime}$ | Flute Ouverte |
| 8 | Quintaton (Swell) |
| 5-1/3' | Quinte |
| $4{ }^{\prime}$ | Principal |
| $4 \times$ | Flute Harmonique |
| 2-2/3' | Mixture III |
| ${ }^{\prime}$ | Fourniture |
| $16^{\prime}$ | Bombarde |
| $8{ }^{\prime}$ | Trompette |
| $4^{\prime}$ | Clarion |

We will now take a look at an organ which greatly added to Harrison's reputation as one of America's foremost exponents of the new "Classic-designed" organ. We are referring here to the small neo-Baroque organ designed in 1997 at the behest of E. Power Biggs for the Busch-Reisinger Muscum of Germanic Culture at Harvard University
Biggs, like Harrison, was trained in English musical traditions (having emigrated here in 1930) and also like Harrison, was an idealist. He saw the need for such an organ not only to expose Americans to the Baroque repertoire Americans to the Baroque repertoire instrument for its performance. ${ }^{77}$ His instrument for its performance." His subsequent broadeasts of recials on the Germa to 1050 on Sur 1942 to 1956 on Sunday mornings managed to accomplish just that. Charles E . Billings, author of an article on "Current Trends in American Organ Building" in The Organ of January, 1957, considers Biggs
more than any other person
responsible for the success of tonal reforms."
Henry Willis referred to this instrument, as well as to the similar Worcester Art Museum organ, built by Harrison in 1942, as being of ". . . enormous interest to the disceming expert, if caviar to the general." ${ }^{20}$

Orpha Ochse referred to the Germanic Museum organ as the ". . . closest to a Baroque organ that any American organ builder had come since Tannenberg. It was entirely unenclosed, freestanding, and used $2-1 / 2^{\prime \prime}$ pressure. ${ }^{350}$ Edward Gammons, in a review he wrote at the opening of the organ, said:

The color and versatility of this
little organ of twenty-five stops are
beyond conception and withal it is
the most satisfying musical medium for the interpretation of classical or-
gan music that the writer has ever gan music hear. ${ }^{\text {git }}$
Finally, a commentary from The Dia. pason:

Failing to arouse any interest in Harvard authorities, Mr. Biggs men-
tioned the idea to Mr. Harrison, who
became so interested that he recon: mended to the Acolian-Skinner firm that they build the organ as an ex periment . . . The new organ, whik not by any means Mr. Harrison's ultimate ideal for a church organ, does express his philosophy of organ building. ${ }^{\text {an }}$
It is most unfortunate, that after having been moved to the School of Fine and Applied Arts of Boston University in 1958, the organ was ultimately destroyed by fire in $19711^{\text {m }}$ Here, then are the specifications: ${ }^{3}$

|  | HAUPTWERK |
| :---: | :---: |
| 16' | Quintade |
| $8{ }^{\prime}$ | Principal |
| 4 | Spitzflöte |
| $8{ }^{\prime}$ | Principal |
| $4{ }^{\prime}$ | Rohrflöte |
| 2-2/3' | Quinte |
| ${ }^{\text {2 }}$ | Super Octave |
|  | Fourniture |
|  | POSITIV |
| $8{ }^{\prime}$ | Koppelflöte |
| $4{ }^{\prime}$ | Nachthorn |
| 2-2/3' | Nasat |
| 2 | Blockflöte |
| 1-3/5' | Terz |
| 1 ' | Sifflöte |
| III | Cymbel |
| $8{ }^{\prime}$ | Krummhorn |
| $16^{\prime}$ | PEDAL |
| $8^{\prime}$ | Gedeckt Pommer |
| $8{ }^{\prime}$ | Principal |
| $4{ }^{\prime}$ | Nachtiorn |
| $2 \cdot$ | Blockilöte |
| III | Fourniture |
| $16^{\prime}$ | Posaune |
| $8{ }^{\prime}$ | Trompette |
| $4^{\prime}$ | Krummhorn (Positiv) |

COUPLERS
Positiv/Pedal
Hauptwerk/Pedal
Positiv/Hauptwerk $16^{\prime}, 8^{\prime}$
We have mentioned the similarity beween the Germanic Muscum organ and that of the Worcester Art Muscum, and so we will now briefly discuss the latter instrument. Like the Germanic organ, it had 23 independent voices, and was actually originally planned as a twomanual organ. Built in 1942, the worcester organ represented Harrison's first use of unenclosed, free-standing pipework in a rear gallery, with all divisions of the three-manual instrument unenclosed, situated above the court skylight, out of sight. ${ }^{\text {s }}$
The organ was designed by Harrison with Joseph Bonnet, who served as resident organist at the muscum during the 1942-43 season (and who incidentally played the opening recital on Novem er 18,1942$)^{38}$ and with William Self, organist of the All Saints' Church in Worcester, who later served as resident organist of the Worcester Museum from 1943 on. ${ }^{37}$ A. Thompson-Allen, whom we quoted earlier in reference to the All Saints' organ, had this to say of the Art Muscum organ:

Without any doubting, at the Worcester Art Museum may be heard one of the best modern examples of a classical instrument of precise calibre . . .
The instrument forms an ideal medium for music of the classical per-
iod. An organist playing this music and using the registration available finds a remarkable wealth of tonal variety at his command. Joseph Bonnet placed great emphasis on the $8^{\prime}$ Bourdon as a foundation stop for the manuals. The addition of the 4 ' Principal, when the two stops are wisely scaled and voiced, serves to create the illusion of a pleasing, old-fashioned diapason tone of 8 foot pitch. ${ }^{\text {a }}$ Herewith are the specifications to .

|  | Great |
| :---: | :---: |
| $16^{\prime}$ | Quintaten |
| $8{ }^{\prime}$ | Bourdon |
| $4{ }^{\prime}$ | Principal |
| $4{ }^{\prime}$ | Rohiffiote |
| IV | Fourniture |
|  | POSITIV |
| $8{ }^{\prime}$ | Quintade |
| $4^{\prime}$ | Koppelfläte |
| 2-2/3' | Nasard |
| 2 | Principal |
| 1-3/5 ${ }^{\circ}$ | Tierce |
| 1-1/3' | Larigot |
|  | RECIT |
| $8{ }^{\prime}$ | Rohrflöte |
| $4^{\prime}$ | Prestant |
| 1 V | Cymbal |
| $8{ }^{\prime}$ | Cromorne |
|  | PEDAL |
| 16' | Rohr Bourdon |
| $8{ }^{\prime}$ | Spitzprincipal |
| $4{ }^{\prime}$ | Nachthorn |
| 2 ' | Blockflöte |
| IV | Mixture |
| $16^{\prime}$ | Fagot |
| $8{ }^{\prime}$ | Trompette |
| $4{ }^{\prime}$ | Rohr Schalmei |
| $16^{\prime}$ | Quintaten (Great) |
| $8{ }^{\prime}$ | Quintaten (Great) |

We turn now to one last example of G. Donald Harrison's designs, and that is of the organ in the Mormon Taberis of the organ in the Mormon Taberof his later, post-war instruments, having been built in 1948, and it is also ing been built in 1948, and it is also
one of his largest. In 1953, Henry Willis one of his largest. In 1953, Henry Willis
wrote that Harrison considered the Tabwrote that Harrison considered the Tabernacle organ his "'magnum opus' to date," and willis regretted his inability to visit the instrument which ".. . all who have heard it [sic] speak in glowing terms." ${ }^{\text {." }}$ Willis
Willis also spoke of the wonderful building which the instrument enjoys - it has a six-second reverberation period; ${ }^{41}$ similarly, Alexander Schreiner opened his article on "The Tabernacle Organ in Salt Lake City" in the Spring, 1957 issue of the Organ Institute Quarterly with a discussion of how acoustics affect organ sound:

Just as the resonator of any musical instrument affects its tone, so also the building in which an organ is installed can act as a kind of resonator and create either an effective, cohesive blending of tone, or dull disjunct sound. The Mormon Tabernacle Or gan occupies a commanding position in a building with fine aconstical qualitics, a building built by early settlers in a western wilderness.e
Originally built by Joseph Ridges in 1866-69, with parts from the Simmons Organ Co. in Boston, it included two manuals (Great and Swell) and Pedal, with 27 stops when it was completed. The dedication of the Tabernacle utilized the partly-built organ.)

In 1885 it was enlarged by Niels Johnson to three manuals, forty-six speaking stops, with Great, Swell, Choir, Echo, and Pedal divisions. The organ was later completely rebuilt in 1900 by w. W. Kimball, in 1916 by Austin, and finally by Acolian-Skinner in 1948, expanding the instrument to 189 ranks. This organ, much like the Busch-Reisinger ingan, much like the Busch-Reisinger in-
strument, has been popularized by frequent recitals and radio broadcasts, conquent recitals and radis
As for the Harrison
As for the Harrison design of the organ, there are eight divisions, including the Antiphonal in the rear of the Tabrnacle. Schreiner's description of the main body, that is, the remaining seven divisions of the organ, seems worth quoting in full:
is the main body of the organ is located in such a prominent position in the front as to cnable the pipes to speak unimpeded, so that each section contributes its proportion to the total of the ensemble. or instance, the Positiv on the lowest wind pressure can be heard conributing its particular brilliance to the sum of the other six divisions. Also, the two most powerful stops, the Solo Tuba on fifteen inches and the Bombarde Trompette on seven inches, are not overpowering when heard alone and thus do not overshadow he remainder of the organ. This is very delicate artistic achicyement whirh can only be affected by the most experienced builders. It has been accomplished and is clearly hem. onstrable in this instrument Two results are produced: (1) The whole organ sounds like a large choir of sounds, each stop contributing to the whole, a quality particularly sought in any musical ensemble, whether it be choral, orchestral, or organ; (2) be choral, orchestral, or organ; (2)
No one stop, though it be of dominating quality, is allowed to blot out nating quality, is allowed to blot out so that when the last Tuba is added, the sound is still that of a large orthe sound is still that of a large organ and not that of one stop accompanied by all the rest. Naturally, there are delicate flue and reed sounds
which cannot be heard in a full enwhich cannot be heard in a full ensemble, but the foundation stops, mixtures and reeds, which are the backbone of the organ, are so well balanced that each contributes to a "democratic" ensemble of sound." The Great organ comprises a complete flue chorus, ranging from the $16^{\prime}$ Sub Principal to the Acuta Mixture, based on $1^{\prime}$ pitch. Typical of the Harrison style, there are no reeds on the Great, although there are thirty-one reed ranks, in the instrument.
Schreiner describes the Bombarde as a "super Great organ," rarely used, and of "heroic proportion . . . its sixteen rank together are nearly as powerful as the remaining 172 other ranks of the organ." ${ }^{4}$
The Swell holds both "broad and keen" strings, covered and open flutes, reeds at 5 pitches and a Plein Jeu capable of being played by itself.
The Choir also contains varied strings, a Zauberflöte, which is a set of closed harmonic pipes overblowing at the third harmonic, and a set of Baroque shortlength reeds at $16^{\prime}, 8^{\prime}$, and $4^{\prime}$ pitches, as well as the Trompette and Orchestral Oboc.
(Continued, page 8)


## MAKING SMALL SPACES GROW


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Digital Delay, a new option for Allen Digital Computer Organs, expands the sonic dimensions of any environment, from a living room to an auditorium - creating the illusion of a much larger building.
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## G. Donald Harrison

(continued from $p .6$ )
The Positiv contains "clearly voiced" flutes, mixtures, principal mutations, and a Baroque-type $16^{\prime}$ Rankett.
The Solo organ, also containing broad and keen strings, has, ill addition, reeds oiI $10^{\prime \prime}$ pressure and the Tuba on 15 inches, which, incidentally, is not affected by the tremolo.

The Pedal consists of 36 straight sets of pipes comprising 16 pitches (i.e. 16 harmonics) from the bottom of the $32^{\prime}$ to the top of the Cymbale ( $32^{\prime}, 16^{\prime}, 10-$ $2 / 3^{\prime}, 8^{\prime}, 6-2 / 5^{\prime}, 5-1 / 3^{\prime}, 4-4 / 7^{\prime}, 4^{\prime}, 3-5 / 9^{\prime}$, 3-1/5', 2-2/3', 2', 1-1/3', 1', 2/3', 1/2) The seventh tierces and the ninth are incorporated into the Harmonic Mixture of the 32, harmonic serics. The Ophi leide is the dominating Te Ophi$\because . .$. sounds clear trombone quality to its lowest note." ${ }^{14}$
Finally, the Antiphonal Organ has a full Diapason chorus with a Trompette and a pair of strings. It is also interesting to note that $60 \%$ of the organ is menenclosed and that which is enclosed is not deep - the Swell, for instance, is divided into four shallow chambers, with the ceilings of the boxes rising from back to front to help project the sound. ${ }^{\text {T }}$ This, then, would seem to be a major improvement over the type of siltuation found at Groton, with its deeply recessed chamber, and even of that at Advent.

One final note of interest: Schreiner mentions in his articie that unusual circumstances prevailed in the determination of wind pressure for the Tabernacle Organ, since its location is so far above sea level. (Salt Lake City is 4300 fect above sea level.) Being something of a physicist, Schreiner discovered that where the barometric pressure at Salt Lake was 25.7 , it was 29.82 in the Aco-lian-Skinner factory at Boston, and a ratio was set up between the two, so that as $95.7 / 29.8=5 / 5.8$, it was decided that pipes intended to be played as $5^{\prime \prime}$ pressure should be voiced at $5.8^{\prime \prime}$ in pressure should be voiced at $5.8^{\prime \prime}$ in
Boston.
Recognizing the absolute artistry and beauty of this instrument, Schreiner requested that Harrison attach a "signed" plate to the organ, and this Opus 1075 flist to boast his signture " Here he first to boast his signature." Here, then, are its specifications: ${ }^{10}$

|  | GREAT |
| :---: | :---: |
| $16^{\prime}$ | Sub Principal |
| $16^{\prime}$ | Quintaten |
| $8{ }^{\prime}$ | Principal |
| $8{ }^{\prime}$ | Diapason |
| $8{ }^{\prime}$ | Spitzflöte |
| $8{ }^{\prime}$ | Bourdon |
| $8{ }^{\prime}$ | Flute Harmonique |
| $8{ }^{\prime}$ | Bell Gamba |
| 5-1/3' | Grosse Quinte |
| $4{ }^{\prime}$ | Principal |
| 4 | Octave |
| 4 | Gemshorn |
| $4{ }^{\prime}$ | Koppelflöte |
| 3-1/5 ${ }^{\text {c }}$ | Grosse Tierce |
| 2-2/3' | Quinte |
| 2 | Super Octave |
| $\underline{2}$ | Blockflöte |
| 1.3/5' | Tierce |
| 1-1/7' | Septieme |
| 2.2/3' | Full Mixture 1V |
| 2 ' | Fourniture IV |
| 1-1/3' | Kleine Mixture IV |
| 1 ' | Acuta III |

CHOIR
Gamba
Principal Viola
Viola Celeste
Dulcet II
Kleine Erzhäler
Concert Flute
Prestant
Gambette
Zauberflöte
Piccolo
Carillon 111
Rauschpfeife II
Dulzian
Orchestral Oboe
Cromorne
Rohr Schalmei
Trompette
Celesta

## SWELL

Gemshorn
Lieblich Gedeckt
Geigen Principal
Claribel Flute
Gedeckt
Viole de Gambe
Viole de Celeste
Orchestral Strings II
Salicional
Foix Celeste
Filute Celeste
Prestant
Prestan
Fugara
Flauto Traverso
Nazard
Octavin
Cornet III VI
Plein Jeu VI
Hautbois
Voix Humaine
Harmonic Trumpet
Contra Fagot
Contra Trompette
Trompette
Quinte Trompette
Clarion

|  | BOMBARDE |
| :---: | :---: |
| 8 | Diapason |
| ${ }^{\prime}$ | Octave |
| 2-2/3' | Gross Cornet IV.VI |
| 2-2/3' | Grande Fourniture VI |
| $16^{\prime}$ | Bombarde |
| $8{ }^{\prime}$ | Trompette |
| $1^{\prime}$ | Clarion |
|  | ANTIPHONAL |
| $8{ }^{\prime}$ | Diapason |
| $8{ }^{\prime}$ | Gedeckt |
| $8{ }^{\prime}$ | Salicional |
| $8{ }^{\prime}$ | Voix Celeste |
| $4^{\prime}$ | Principal |
| $\underline{2}$ | Kleine Mixture III |
| 8 | Trompette |
| $8^{\prime}$ | Vox Humana |
|  | PEDAL |
| $32 '$ | Flute Ouverte |
| $32^{\prime}$ | Montre |
| 32' | Bourdon |
| $16^{\prime}$ | Flute |
| $16^{\prime}$ | Principal |
| $16^{\prime}$ | Contre Bass |
| $16^{\prime}$ | Violone |
| $16^{\prime}$ | Bourdon |
| $16^{\prime}$ | Gemshorn (Swell) |
| $16^{\prime}$ | Gamba (Choir) |
| $16^{\prime}$ | Lieblich Gedeckt (Swell) |
| 10.2/3' | Grosse Quinte |
| 8 | Principal |
| $8{ }^{\prime}$ | Violoncello |
| $8^{\prime}$ | Spitzprinzipal |
| $8{ }^{\prime}$ | Flute Ouverte |
| 8 | Flauto Dolce |
| $8^{\prime}$ | Gamba (Choir) |
| 8 ' | Lieblich Gedeckt (Swell) |
| 5-1/3' | Quinte |
| 4 | Choral Bass |
| $4 \prime$ | Nachthorn |
| $4^{\prime}$ | Gamba (Choir) |
| $4^{\prime}$ | Lieblich Gedeckt (Swell) |
| 2 | Blockflöte |
| 10-2/3' | Grand Harmonics V |
| 5-1/3' | Full Mixture IV |
| 1-1/9' | Cymbale IV |
| $3{ }^{\prime}$ | Bombarde |
| $32^{\prime}$ | Contra Fagot |
| $16^{\prime}$ | Ophicleide |
| $16^{\prime}$ | Trombone |
| $16^{\prime}$ | Fagot (Swell) |
| $16^{\prime}$ | Dulzian (Choir) |
| 8 | Posaune |
| $8{ }^{\prime}$ | Trumpet |
| $8{ }^{\prime}$ | Cromorne |
| $4^{\prime \prime}$ | Clarion |
| 4' | Chalumeau |
| 2 | Kornett |

Harrison's admiration of Schulze, Willis, and Cavaillé-Coll can perhaps now be understood and appreciated, especially by those who have heard any Harrison's these instrumens. We ind Harrison's statement on the subject in William H. Barnes The Contemporary merican Organ:
The student who cares to live with and thoroughly investigate the great works of these old masters of the past nay discover the laws which are in common between them. Briefly, they may be summed up as follows:

1. All stops employed, whether Diapasons, Octave, Mutation, String, Flute or Reed, are strictly musical in character. That is to say, the harmonic development is neither under nor overdone, but lies within well-defined limits, and the complete series of harmonics is in "phase."
2. The stops maintain such harmo nic development throughout their compass.
3. The relative power of Octave and Mutation ranks to the Unison lies within definite limits and fol lows a certain logical order in all cases.
If these rules are adhered to and he tonal scheme is correct, it is almost impossible to go wrong. Beauty of the individual ranks, blending qualities, clarity in the ensemble are all assured, and yet an infinite varety in timbre is possible. The treatment can be extremely bold, if desired, without giving offense.
On the other hand, the breaking of one of these rules is fatal. Some ittle time ago, 1 examined a large four-manual organ in which the tonal sheme was about perfect for its size. The builder had followed rules I and 3 , but had largely disregarded rule 2 . The treble of the whole diapason structure faded away to weak pason structure faded aw to weak development had not been maintained cevoloph out the compass The result was lack of blend in the treble and with the octave coupler drawn the fint the octlly coupler drawn the understaud the fear of this, and yet understice the billor mechan cal device led the builder to make r will . . . The ars organ buid er wint dividual stops or departments from the old masters. Stants of this kind rarely come off. Rather should he endeavor to give the fundamental laws his own interpretation.
Naturally I can only touch the fringe of these subjects. The design of Mixtures alone, with the various breaks arranged to suit the particular specification in hand is one which would require several volumes.
The poor organ has suffered more than any other instrument from the whims of amateurs, experimenters, and dabblers. Tones are allowed and even heralded as great achievements, which would not be tolerated in any other musical field. "Well, it's all a matter of opinion" is heard far too often. For an opinion to be worth anyhing it is necessary that the person offering it has reached the final stage of tonal appreciation. As my old friend the Rev. N. Bonavia.Hunt has said, "Many people never go beyond he second stage of tonal bo beyond he seco which they revel in harmonic less or unmusical tones."
One may have personal preferences for the Willis or the Cavaille-Coll or the Schulze organs referred to, since they are all artistically correct, but the man who likes better than any of these an instrument having fundamental errors cannot expect to have his criticisms or opinions taken seriusly.
Finally, the ideal instrument seems to be a combination of the properly designed, produced and finished clas sical organ with the new, beautiful and subtle tones which have been produced in this country.
Austin Niland, writing in "The Organ," lists these qualities as essential if an organ is to be aesthetically satisfying. He says: no organ is mu sically tolerable in chorus or lesser effects unless the following are present to a certain degree:

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(A) BALANCE: The stabilization of all the pitches in satisfying proportions, no particular pitch dominating unduly.
(II) BLEND: A reaching out of a given register to cmbrace any one or more drawn with it. Thus, Viola and Flute or Gedeckt give a new composite colour, not merely string and Flute sounding together.
(C) CLARITY: The clear revelation of inner parts in polyphony. This is of great importance in all but FF climaxes when only the broad chordal outline is important enough to be apparent.
(D) GRANDEUR: The unique ma. jestic quality oi good organ tone. It is possible to construct a Baroque organ embodying blend, balance and clarity only. But without grandeur it would be intolerable musically even though it would be impossible to hear every note distinctly in polyphony.
(E) RESTRAINT: The quality of being within reasonable limits of power, so as (a) to avoid monotony and (b) increase the general utility of full chorus effects.*
We leave it to the reader to consider whether or not Harrison was successful ill following these particular criteria himself, but in any event, Harrison's impact on the organ world cannot be overestimated. Perhaps William King Covell said it best in his eulogy of Harrison:

This new type of organ, related to yet different from, anything the world has known, of which he [Harrison] was so largely the originator and for which no adequate descriptive term has yet found acceptance, is as characteristic of our age in terms of music, as are concrete, steel, and plass in architecture. The best of modern or gans and modern buildings are not copies of even the greatest of the works of the past bad $\gamma$ et they one wud all stad firnly on the fourla and af star bowl one the founda bion of past knowrege and achere inem. Whe hout the vision, the faith, and the research of master minds, now and yesterday, such masterworks as we have from our own age, could not have come into existence
[Harrison] takes his place as perhaps no other organ builder of his generation, certainly in this country, in the succession of great masters that comes down from the past and beckons onward to the future. ${ }^{\text {ar }}$

## FOOTNOTES

${ }^{1}$ Holtikanp had taken over the leadershitp of the former Vïttier, Holthamp \& Sparling Co. in 1931, forming the Holtkamp Organ $\mathrm{Co}_{0}$, and Harrison lad taken over the management of the E. M. Skinner Co, in the same year, also the year in which the company became known as Acolian-Skinner Organ Co., upon the Skinner Co. merger with the old Aeolian Piano Co. ${ }^{2}$ Orpha Ochse, The History of the Organ in the United States (Bloomingtont Indiana University Press, 1975), p. 387.
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${ }^{4}$ Henry Willis, "A Footnote," Musical Opinion, LXXIX, p. 682.

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${ }^{7}$ Willis, "America Revisited," The Organ, ${ }_{8}$ Thompson-Allen, p. 56 . 11.
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${ }^{14}$ Edvard B. Gammons, "Tlie Organ in Saint John's Cluapel, Groton Chapel," Organ Institute Quarterly, VII, Syring, 1957, p. 21. ${ }_{13} 15$ Ibdid.

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${ }_{10}$ Thompson-Allen, p. 54
${ }^{17}$ Ochse, p . 380 .
${ }_{10}$ Thomas Stevens, "Impressions of Some Organs in the United State," The Organ, XXXVII, Oct., 1957, p. 93.
${ }_{30}^{20}$ Ochse, pp. 378.80.
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${ }^{21}$ Gannmons, p. 22.
$2 \mathrm{Ochse}, \mathrm{p} .380$.
$\$$ Valentine, p. ${ }^{21}$.

${ }^{20} 1$ Ibid.
${ }^{71}$ Charles E. Billings, Jr., "Current Trends in American Organ Muilding," The Organ, XXXVI, Jan., 1957, p. 110 .
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${ }^{2} 1$ lid., p. 781 , lootunte $\# 3$.
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gan in Salt Lake City," Organ Intititue Quartetily, VII, Spring, 1957, pp. 25-9.
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${ }^{43}$ ibid., p. ${ }^{26}$.
${ }^{4} 8$ Ibid.
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- 'William Self has recently informed the author that the organ lias undergone no revisions since 1942, and therefore we would like to inform the reader of errors in our source: the Fourniture on the Hauptwerk is III-V ranks, and the $2^{2}$ 'principal' is labeled 'Doublette' on the positiv. Finally, the $16^{\prime}$ reed on the Pedal is a 'Posanne.' In addition, the couplers are Recit/Pelal, Great/ Pedal Positiv/Pedal, Recit/Great, PosiLiv/Great, Recit/Positiv, Recit/Great 16', Recit/Great 4', Pedal/Great 16', and Reverse Positiv and Recit.

The author would like to express great appreciation to Phillip Steinhaus, who provided the initial idea and inspiration for this paper, as well as a great deal of pertinent information, and who kindly edited the original manuscript; to J. Miclacl Harrison, who provided heretofore unavailable biographical data on his father, and who also generously gave of his time to be imterviered, and 10 read and comment upon this essay; and, finally, to Robert Schuneman, who was and is ant unending source of information and support for this project, and who also graciously did the final editing of the manuscript.

Aun Vivian holds a B.A. in music from W'ilkes College, Wilkes-Barre, PA, nihere she was a student of Clifford Lalshaw. She is now a student of Phillip) Steinhaus and recently received the M.M. in organ from the Boston Conservatory of Music. This article represents the beginning of a research project sents the beginning of a research project she is pursuing, wilh the ultimate goal of completing a comprehensive book on
the organ designs of G. Donald Harrithe organ designs of G. Donald Har
son and the American Classic organ.


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Marilyn Mason, professor of music and chairman of the organ deportment at the University of Michigan, was honored on October 19 for her 30 years of teaching at the Ann Arbor institution. Seventy-eight colleagues, friends, and former students participated in a celebration dinner held at the conclusion of the annual organ conference. Dr. Moson was presented with a cash gift, which will be used to commission a new organ work by a composer to be named at a later date. Pictured with her are student co-chairmen Michele Johns and Dennis Schmidt (ieft) and Roberta Bitgood (riaht)

Salem Lutheran Church, in Bethel, Po., northwest of Reading, was consumed by on early-morning fire on Nov. 9. Although the brick walls ware left standing, part of the roof collapsed, and the interior of the building was destroyed. A pipe orgon, said to have been built more than a century ago by John Love of Ithaca, NY, was among the losses. It had been purchased in Ephrata only two years ago.

Delbert Disselharst, University of lowa, was the recitalist for the Peoria AGO chapter on October 23, when he performed works by Scarlatti, Arauxo, Bach, Widor, and Durufle. The instrument was a newlyinstalled Wicks of 61 ranks, at the First United Methodist Church.

John Rose, Trinity College, Hartford, opened the 9th annual organ concert series at the First Congregational Church of Los Angeles on Nov. II. Except for Robert Edward Smith's newly-written "Partita," the recital was an all-French one, including works by Marchand, Franck, Saint-Saëns and Vierne.

Robert Tripleft has been granted a sabbatical leave from his position as associate professor of organ at Cornell College, Mt. Vernon, lowa, for the period January through June 1978. Dr. Triplett's research proiect, "Anxiety and the Performing Musician" will be undertaken in San Francisco, where he will be associ ated with the Psychosynthesis Institute.


Organists from a six-state area attended the I2th Annual Organ Workshop at South ern Illinois University, Carbondale, on No vember 12. Guest performer was Joan Lippincott (right), who ployed a recita and held two sessions on "Baroque Articu lation in the Works of J.S. Bach." At left is Marianne Webb, professor of music and organist at SIU.
C. F. Peters Corporation has issued it Music Calendar 1978, which contains both illustrations and dates relating to music. Of particular interest to organists is - 1936 photograph from the Library of Congress which shows a reed organ in place in a rural Alabama church.

German Romanticism Conference continued from p. 3) The faculty of the organ department at the University of Nebraska, Dr, George Ritchie and Dr. Quentin Faulk ner, is to be commended for conceiv ing the conference and emabling its smooth operation. The only disappoint ment of the conference was Lincoln's ack of a 19 th-century organ adequate to demonstrate the points made about instruments and registrations. The Reu ter organs on campus were conceived within the "American classic" framework.
While it is difficult to do reportorial justice to the outstanding research, pre sentations and conclusions that Mr Leupold and Mr. Schuneman have brought to bear upon the performance of nineteenth-century German organ music, it is hoped that a good segment of the organ world will be fortunate enough to lend thom an open ear in nough to lend them an open ear in their expertise firstland.
-Editor's note: Adolf Reubke (1805 1875), organ builder, was the father of composer Julius Reubke.

Gerald Frank is an assistant protessor of music at Oklahoma State University Stillwater. He is a graduate of T'alpa raiso University and Union Theological Seminary, and is completing his doctorate at the University of Cincinnati.


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## Margaret Mood

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Eugenia Earle has been appointed to the faculty of Rutgers College of Rutgers University, to teach harpsichord, Baroque ensemble and piano. Miss Earle, formerly on the faculty of the School of Sacred Music of Union Theological Seminary is presently also on the faculties of the Manhattan School of Music and Teachers Colhaftan School a Music and Teachers Colnumerous recitals, lecture-demonstrations and workshops.


Hughas and Deborah Huffman have been appointed minister of music and organis $\ddagger$ /carillonneur, respectively, at the First Presbyterian Church, Gastonia, NC. The Huffmans had been associated with Christ Church, Oak Brook, III., since 1965, in similar capacities. Mr. Huffman is a

## Appointments

graduate of Wheaton College and Northern Illinois University; Mrs. Huffman received her dagrees from Wheaton and Northwestern University, and has also studied with Wilma Jensen. The new positions involve responsibility for a graded choir program, handbell choirs, organ and carillon music: the church contains a large Cosavant organ, as well as a small Sehlick. er organ in the chapel, and a 4 -octave Eijsbouts carillon.


Gala Kramer has been appointed organ. ist of Metropoliton Methodist Church, Detroit, Mich. He holds degrees from Oberlin College, Syracuse University, and the University of Michigan. His organ study has been with Ray Ferguson, Haskell Thomson, Will Headlee, Arthur Poister, and Marilyn Mason. Dr. Kramer, a past dean of the Ann Arbor AGO chapter, will continue as a member of the music faculty at Wayne State University in Detroit.
Metropolitan Methodist Church has re cently signed a contract with the Burger \& Schafer Organ Co., Findlay. Ohio, to rescale and revoice the church's 5 -manual, II9-rank Möller organ. A number of ranks will be replaced and several new
stops will be added. Robert Glasgow is chief consultant for the work.


John Kuzma has been appointed to the staff of Garden Grove Community Church in Garden Grove, Cal, where he will serve as director of boychoir programs, associ ate organist and concert organist in resi ate organist and concert organs in resi dence. He is a graduate School of Music, whera he studied wilh David Craigheod, Russell Sounders, and Robert Noehren, and the University of Hlinois, where he was a student of Jerald Hamilton. During $198-69$ he was a Ful. bright scholar in Denmark. He leaves a position at the University of California, Santa Barbara.

Daniel L. Sharp has been appointed minister of music for the First Presbyterion Church, Pittsburgh, PA. He received the BME degree from Wheaton College, the MME from Drake University, and the DMA from the University of Southern California. Prior to beginning doctoral work, he taught music for two years in Newark, III. public schools. Dr. Sharp has sung and studied with Robert Show and Rogar Wagner. He is joined in his work at the Pittsburgh church by Patricia Ann Ellis, who has been appointed organist there. Mrs. Ellis earned her BMus and MMus degrees in organ af the University of Cincinnati's College-Conservatory of music.


# THE EUROPEAN ORGAN CULTURE <br> ORGAN TOUR II TO HOLLAND, NORTH AND SOUTH GERMANY AND AUSTRIA 

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similar orwaments. Part of the confusion is due to the fact that singers, vihuelists, and keyboard players all used different names for the same type of ornament. Luys Milan alluded to this situation in Libro de Misica de vihuela

This sonnet which follows must be played somewhat joyfully and the inger must sing plainly, and where it fits, to ornament with the voice whether with a quiebro or, as they say, trinar. ${ }^{3}$
This situation - still a problem nearly a century later - was explained by le Tientos y Discursos raux inice Libro tica y theórica de Organo intitularo facultad orginica (1626)

And never use a redoble (by my advice) between two pitches such as ut , re or re and mi, or fa and sol, or sol and la, but rather at half-steps like mi and fa or on a leading tone because this alone is used by many singers and instrumentalists; so that at whole-steps there is a quiebro intead of a redoble. And note that it is called differently by others: trinado or trino, and singers call it quicbro, but we call it redoble. ${ }^{\text {a }}$

The greatest wealth of information about ornamentation is supplicd by Tomís de Santa María (Libro llamado Arte de tañer Fantasia, 1565$)^{4}$ and by
Correa de Arauxo. Confirmation of some aspects of their accounts is found in aspects of their accounts is found in
Bermudo's Declaracion,' the preface by Rermudo's Declaracion, ${ }^{\text {, }}$ the preface by
Luis Venegas de Henestrosa to his anhology Libro de Cifra Nuerı (15:7); and the preface by Heamando de Cabe zon to his edition of the Obras de Misica (1578) of his father Antonio. ${ }^{5}$ The comments of each one will be found below with comparisons and contrasts o other sources. For the sake of conenience, all of the described ornaments with original fingering are listed in the lable of ornaments (Examples 1-17).
note) if the fingering is possible. The interval formed by this orriament may be either a whole or a half-step.
The quiebro of minims must consis of a whole-step above and a half-step below, as in Example 4. As the name implies, this ornament may be applied to minims only.
Santa Maria informs us of a recen change in ornamentation. Because of their dexterity of technique, some players were beginning the redoble and the quicbro reiterado with a grace note as in Examples 2 and 6 (described as a note struck alone so that the second note of the resulting ornament will be struck on the consonance or beat). This manner of ornamenting as well as the mancer of ornamenting as well as the iful, and thus to be preferred:

These kinds of dedobles and quic bros, and the quicbro of minims which is made with a whole- and a half-step together, are very new and gallant, and they create such grace and melody in the music, that they ele vate the music so many degrees and oo such contentment for the ears, that it seems an entively different thing from that which is played withou them,, and for this reason one should rightfully use them always, and not the others which are old and not so attractive.

The remaining quiebros sencillos ("simple") may be played only on semiminims (quarter notes) or - if time allows - fusas (eighth notes). The quielso reiterado is $\mathbf{t o o}$ long for semiminims; for the same reason the quie bro sencillo cannot lee played on note is short as semifusas (sixteenths) or most fusas. As a shortened form of the quiebro reiterado, the quiebro sencillo may be played on a whole-step or on half-step. As indicated in Example 7 the quicho sencillo is a mordent in ascending passages and an inverted mordent in descending passages.
Both ascending and descending forms of the quiebro sencillo may be playe in the following manner. The finger


## 3x. 2 Grace note <br> 20为



## 



## TOMAS DE SANTA MARIA

The importance of ornamentation in Santa Maria is demonstrated by its indusion in a list of eight conditions that adorn music Santa Maria placed namentation eighth after musicality and six conditions pertaining to basic keyboard technique.
Santa Maria defined redoble as "donbled or repeated notes." It is for aljacent notes (Example 1), and must consist of both a whole- and a half-step, as in Examples I and 9 , but not as in Example 3. The redoble is to be played only on semibreves (whole notes), but need not last through the entire duraion of the semibreve, lest ant ugly efect be produced. Thus the passage in Example 18 a might be realized as in 8 b . Because of the tuming, one may use the redoble only on $\mathrm{B}_{b}$, and $\mathrm{E}_{b}$ in a descending passage and on $C_{\#,}, F_{\#}$ 16).

According to Santa Maria, quiebro also meant "doubled or repeated notes." Six quiebros are described in the treaise: the quiebro reiterado (Example ), the quicbro of minims (Example , and four types of quiebro sencillo Examples 7 and 8 in both ascending and descending forms). The quiebro eiterado is related to the redoble (reterado also means repeated) but does not have the prefix of the redoble. It may be played on every minim (half
blaying the first note remains on the ker; but the finger playing the second key, but the finger playing the second fashion, after which the first finger presses downward on the key. The sec oud note is to be struck so quickly after the first note that they sound almost simultaneously. An approximate nota tion is found in Example 8. This qui ro sencillo would be most effective on the clavichord on which the bebung, pressing down effect, can be realized the full text follows.

Of the two quiebros of semiminims which are played by two fingers whether ascending or descending, one must observe two things. The first is that the finger which strikes the firs note, after having struck the key need not be raised from it, but may keep holding it down, and the finger which strikes the second note then must be removed from the key, sliding off of it in a scratching manner and in addition the finger which struck the first note has to press downwards a little on the key. And be advised that the first note of these quiebros is made with the finger these quiebros is made w
that finishes the quiebro.
The second thing is that the second note of the above-mentioned two note of the above-mentioned two quiebros is to be struck so quickly
after the first that they almost sound simultaneously, so that it seems by simultaneously, so that it seems by
chance that one is struck second. And chance that one is struck second. And
note that of these two above-mennote that of these two above-men-
tioned quiebros, the one that is used
for ascending is not as graceful nor does it sound as well to the ears as the one used for descending, and for lhis reason one should mot use it too often. These two quicbros cannot be notated and therefore no example can be given of them.
The quiebro sencillo is not to be played on every semiminim, but rather on some only. Santa Maria suggested that it is effective to play them on alternate semiminims (Example 19). His preference was to play them on the weak parts of measures (such as the second and fourth of four semiminims) because this gives more "grace" to the music (Example 20). Ornamenting certain fingers of scale passages in semi minims will produce this effect. A normal left hand fingering for ascending scales is 212121, and the one for descending scales is 343434 . Ornaments may be played by the second finger ascending, and by the third finger deascending, and by the
scending (Example 21)

After a semibreve, one may play a quiebro sencillo on two successive descending semiminims which gives the "graceful and gallant" effect observed in Example 22. Another "elegant" effect suggested by Santa Maria is to play quiebros on all semiminims which immediately follow a dotted note in a descending passage (Example 23)
Occasionally the ascending and descending forms of the quiebro sencillo are exclianged. Santa Maria allowed the descending forms in place of the ascending forms when a half-step above the main note would be included in the quicho. This possibility is clarified by Example 24, in which there is a half-step between $A$ and $B_{b}$ in the descending form of the quiebro. In a descending form of the quiebro. In a
passage of semiminims which ascends and then descends, the descending form of the quiebro is applied to the highof the quicbro is applied to the ligh-
est note (Example 25 ). Similarly, in a est note (Example 25). Similarly, in a passage of semiminims which descends
and then ascends, the ascending form and then ascends, the ascensling form
of the quiebro is used for the lowest of the quiebro is
note (Example 26).
Imitative effects are recommended by Santa María to make the music more "graceful" and pleasing to the cars. In Example 18h, the retoble is used by several voices successively in atn imitative passage.
Redobles and quicbros may be played on one of the notes forming the intervals of a third, fifth, or sixth if the fingering allows. Examples of retobles on these intervals in each band and be applied in similar fashion on these same intervals when fingered as indicated.
doble will be an accidental. Playing in the fourth mode, you strike A and should use $B$ (for the redoble) If for a special reason, the mode demands Bb, you don't redoble with $\mathbf{B}$ but with $B_{b}$ because the redoble calls or the accidental, which must be played.
The two normal examples in mode 4 re projected in Example 9. Unstemmed black notes are used because the reladie durations are not indicated by Bermudo. Arbitrarily, only five notes have been projected, but this redoble could have as few as three notes (as in Santa taria's quiebro sencillo in its descendug form) or perlaps nine or more (as In Santa Maria's quiebro reiterado) II any case, Bermudo's description of e redoble loes not resemble Santa raria's redoble because it lacks the Maria's yedix. it is probably the necessary prefix. It is probably related , of the widely varying in further proof of the widely vare
Like Santa Maria's quiebro sencillo. Bermudo's redoble may be played with the note above or below the main note. iterestingly, Bermudo advocated playing both forms at the same time in both hands over certain intervals (octave, fifth, or third) as projected in Example 10. Bermudo's recommendation for intensive practice on ornaments is addiional proof of their importance.

There is a redoble above the struck note and one below. Some play the redobles above only, and never below because they say that the redoble below is not graceful. ${ }^{\text {n }}$ I advise those who wish to learn, to practice and be facile in both redobles for there are notes where both can be played gracefully. If you can redoble above ind you play an octave, a redoble in each hand will not be good music. It is very bad to play parallel octaves. And if you say you will redoble with nly the right hand, this is not valid For the player is forbidden to play glosas [diminution] in that manner,
but must play redobles all he is able but must play redobles all he is able and with as facile a left hand as a
right one. For this reason, students right one. For this reason, students
must be careful to practice redobles must be careful to practice redobles of this matter from your teachers and that you have a lesson on redobles for one hour every day. You must learn play redobles with all fingers so hey will be disposed and able to reoble. Then if you know how to redoble in both parts and with both hands, in the above-mentioned octave you can redoble the soprano below und the other voice above, producing a sixth by the redoble. Or the so-

## (


one of Samta Maria's contur
None of Salnta Mari's contemporaries tescribed ornaments and their unes as ples in this article pertaining to Santa ples in this articie pertaming to Sathta cept examples 8,18 , and 97 , which are projections from, 8 , and -7, Which atre projections from his descriptions. Alt on Cexamples forions , Venegas, and Cabezon are projections and interpretations of their information.

Bermudo provided an unclear de scription of the redoble, but indicated that it will consist of either a whole or half-step, depending on the placement of the omamented note on the scale of the ruode of the composition. The duration of the ornamented note, number of repetitions, relative speed (eighth or sixteenth notes), and rhythmic placement (on or before the beginning of the ornamented note) are not even hinted at.

There are two ways to play redobles on the clavichord: some on a whole-step and some on a half-step

The step or half-step must be in the mode in which you are playing, and this determines which notes to use in the redoble. If it is the fourth mode, and you play $E$, you will recoble with F becatue this note is in this mode. And if you play A you can redoble with B, for this note is essential in this mode. Thus if the mode demands a redoble of a
half-step, play a half-step, and if a whole-step, then play a whole-step by the same reasoning . Sometimes
prano above and the other voice beow, producing a tenth. If the interal were a fifth the redoble could produce a third, and if the interval were a third the redoble could proluce a fifth. The interested playen it this way call combine redobles if e it porchinly these two ways, so保 mine berse but also in retobles. The are re doh!es are played with the closest
finger on the proper side of the finfinger on the proper side
ger playing the main note.

In a comment concerning hand distribution of notes, Bermato also described the possibility of an ornamented uelody plus accompaniment:

Whenever the right hand can stay ree with only the soprano, you must ry to do so in order to play redobles. being the highest voice) beautify music a great deal.

An ornament described by no other Spanish source is projected in Example 1. It consists of the third formed by he notes surrounding the main note.

A most illustrious Spanish player edobles with two fingers - one above

LUIS VENEGAS DE HENESTROSA Venegas provided only fingerings for he quiebro. Presuming that adjacent fingers play adjacent notes, the left lingers quiay adjacent (Example 12c) is probland quiebro (Example 12c) is probMaria's redoble without the or santa ounded first Unfortunately the finoung for the right land produces a gering for the rigit hand produces a oft hand If the "longest" finger is the ert hand. Is the longest inger is the hird (as is probable), this quicbro is Santa Maria's redoisle (Example 12a). But if the "longest" finger is the thumb, the ormament is the redoble reiterado of Correa (Example 12b). Venegas may have intended the left hand ornament to begin on the main note, in which case it will match the right hand quibro (Example 12a) and also Santa Maria's redoble. That Venegas' quiebros produce redobles by other definitions again supports Bermudo's observation about the constantly changing ornamentation. Unlike Santa Maria's redoble, Venegas' quiebro is to be played for the full value of the main note. The full text from Venegas is given below:
rou must also obtain these habits for quiebros: in the right hand playing on the desired key with the longest finger and then the second and turning on the middle finger, play the fourth and continue the quiebro with hese two fingers (third and fourth); do this first slowly and then faster until you can do it spontancously. The quiebro in the left hand must begin with the third finger and con inue to the thumb and then playing the quiebro with the second and irst fingers until a new note is given in the following measure.

HERNANDO DE CABEZON Yet another quiebro (projected in Example 13) was described by fingering by Hernando de Cabezón. His quiebro seems to be related to the descending form (inverse mordent) of Santa María's quiebro sencillo. However "not
oecessarily long in the description in plies that the number of repetitions (short trill) may vary. This possibilit of variable lengths confirms Santa Maria's suggestion for longer or short rerobles. This mordent is not excluded by the fingering either. Like Venegas Cabezón did not describe the use of the quicbro. He left the use of the ornament up to the performer's discre mament up to the performers discretion (where it appears appropriate play a quiebro"). The full text is:

Quebros must be played in the right hand with the third and fourth fingers and with the second and third fingers. In the left hand, use the third and second fingers or the second and first fingers. And play the upper part of the quiebro as fast as possible, and not necessarily long, but rather as short as possible, always using strength on the keys which the notational figure specifies, where it appears appropri ate to play a quiebro.

FRANCISCO CORREA DE ARAUXO In addition to Santa Maria, Correa de Arauxo provided the most helpful information. 11 Not only did he describe ornamentation pactices at length, but he also notated points where redobles may be played. Many quiebros are also written out in Correa's compositions and in tabulations. In spite of the dis tance in time between Correa and the earlier writers, the ornaments and their carplications are remarkably similar application iescribed in maments but acknowledged the exis name of inany more used by other mas tence of inamy more wased by other mas rers. redobles and these I submit to you good education; these are enough for now.
The quiebro sencillo (Example 14) is a "fast descent and ascent" as a mordent. This ormament may be played in any voice and on any pitch. It is to be noted that both whole-steps and halfsteps may be used. Correa's quiebro sencillo is identical to the ascending hatisstrasa
can
Nu vereios DE


form of Santa Maria's quiebro sencillo. Correa specified its use on semibreves, minims, semimbims, and - rarely fusas. Like Santa Maria's, it should not be played on every note when it is applied to passages of semiminims

On semiminims you can play a quiebro sencillo in a slow tactus, on one but not on another, so that not all receive them. I have seen this played on fusas in very slow tempi when semifusas follow, although rarei), but never on semifusas.

Unlike Santa Maria, Correa did not go into any further detail concerning passages in which it would be appropriate to mame sut to ornas sut some, but mific paces whe mentioned other spe cific places where it is appropriate to use the quiebro sencilo. Ms use at the beginning of short pieces is similar to the practice mentioned by Bermudo with respect to the redoble of a third Example 11)

You can (and even should) use the quiebro sencillo at the beginning of each verso, or better stated, of each short work. In the middle, appropriate places are every semibreve and minim in which the hand (whichever it may be) is unoccupied with diminution. It is also appropriate when you play in fast tempi or in compas mayor.' $[\ell]$
The quiebro reiterado (Example 15) is a turn, and is similar to Santa Maria's quiebro of minims. It will be recalled that Santa Maria referred to the quiebro of minims as a new ornament which was o be preferred over older ones. In Corous pretise it has completely displaced ase tuichro eiterado of Saita Afaría. he quiebro reiterado of Santa Maria. Like the quiebro sencillo, the quiebro reterado may also be played in atny served in the examples given by Cor-
ca (shown in Example 15), that both whole-steps and half-steps may be used; santa Maria imsisted upon a wholetep above and a half-step below for his quicbro of minims (Example 4) Correa and Santa Maria also differed ill their fingerings for the left hand.
Just as the quiebro sencillo is used at the beginning of short pieces, the quitbro reiterado is used at the beginling of longer picces, such as a discurso or large serious work. It may also be used "in works with grave measure, as in sixteen or more notes per tactus, as well as on semibreves (or at times ninims) without diminution which would otherwise forbid doing so."
The redoble described by Correa as a repercussion of two neighboring notes with a quicbro sencillo at the end." Cortea mentioned two redobles, which liffer only in that the redoble sencillo (Example 16) has one less note at the beginning in the prefix than the re loble reiterado (Example 17). Correa' redobles lack only the main note as a point of departure; otherwise they are dentical to Santa Maria's redoble and o Venegas quiebro. Correa did not dis ingursi between the two redobles in applying them in compositions. How ever, fie insisted that the redoble is usable only on a half-step:

Redoble must be used on the raised eading tone of every perfect cadence which lasts a measure or more, and on every Mi which ents on Fa which is immediately above in a cadence. In conclusion, on every long semitone which is plain and lasts a tactus.
and never use a redoble (by my advice) between two pitches such as ut, re or re and mi, or fa and sol, or sol and la, but between half-steps like mi and fat or a leading tone .. (Continued overleaf)

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## Spanish Keyboard Ornamentation

 (continued from p. 18)Furthermore, Correa advised that whenever a redoble cannot be played because it is between whole-steps, a quiebro may be played instead. In practice, Correa did not always follow this injunction, but occasionally used a retloble oll a whole-step if it was in the motal scale. This is clearly seen in Example 4t in which Correa completely wrote out the redoble.
On the clavichord, a redoble "must be used at the beginning of every large work which enters on Mi" if a voice enters alone. But, on the organ, a quiebro should be played instead (Example 28). In fact, if any composition - tiento, motet, or verso - begos with played on this opening note: a redoble played on the clavichord, or a quiebro on the on the
organ.
As an appropriate ornament on lead ing tones or on raised accidentals, the

the following passage and as demonstrated in Example 29: "when the tenor plays a plain cadence [clausula llana] tory to play a redoble."
Occasionally redobles are encountered in Correa's tientos which seem to create parallel (or hidden) octaves. However, Correa indicated that "this is permitted because in the redoble one must only heep in mind the plain notes of the cadeucing or ormamented voice, and not the notes around the redoble," Example 30 is one specifically mentioned by Correa in this regard.
restical
Correa in thegard.
Correa advocated ormamenting most onger note values with a quiebro or a edoble:

If the music were entively plain (or for the most part) you would have to adorn it with these ornaments, and thus on all semibreves and minims you are allowed to play one of hem . . . But it seems good to leave some notes plain from time to time without ornaments.
He also advised that there were no determined number of notes in either quiebros or redobles. Thus Correa continued the tradition of expecting the performer to use his own judgment when ormamenting. Santa Maria and When ormamenting. Santa Maria and general principles of ornamentation.
Whereas Correa wrote ont many quiebros (especially in carlence formulas such as Example 31), he notated " R " in the score in numerous places where a redoble is to be played. He devised this motation to avoid writing out the redoble each time.
Correa's Facultad orginica is printed in Spanish tablature in which each soice is indicated on a separate horizontal line. The woice lines are aligned vertically in the conventional SATB order. Notes which occur simultancously mong the voices are also aligned verlically.: Correa used two methods of notating " $R$ " in this tablature. From riento XVI on, and occasionally earlier, ne virtually always wrote " $R$ " on a voice line. Up to Tiento XVI, and only marely later, Correa marked "R" above the "staff" at the point rhythmically where a redoble should occur in some voice. These two placements of " $R$ " will be discussed in more detail below

## LAWRENCE ROBINSON

VIRGINIA COMMONWEALTH UNIVERSITY RICHMOND, VIREINIA
s. 30: Tiento XXXVIII, n. 70


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When " $R$ " is printed on a voice line a redoble usually is to be played in that voice on the note indicated (Ex ample 3 ; the original tablature nota tion is provided underneath Examples 39.36 for comparison). Notice in this case that the alto voice is an example of Mi-Fa. Sometimes an " $R$ " on a voice line is not to be applied to that voice but to another voice (usually the one below or occasionally above). In Ex ample 33, the soprano has not even ell tered yet. But it is clear that the re doble is played in the alto because of the function of $\mathrm{F}_{\mathrm{F}}$ as a leading tone in the chord progression.
Whell " $R$ " is marked above the "staff" or on an inappropriate voice line, it is not always easy to determine which voice is to be ormamented. Per haps Correa changed his manner of motation from above the staff to on the noice line in order to avoid the ambiguities prevalent in the tientos found at the beginning of the Factilat. In some situations the redoble will sound wel in any of several voices (Example 34) In this rare example after Tiento XV of notation above the "staff," it may ine possible to play a redoble in either the alto or the tenor. This is a case of a thematic ornament (see measure 4 in the alto) which logically should be applied to the enor. However the atho hias been altered to a $\mathrm{G}_{4}^{-}$and is stitable for a redoble. It might be preferable to avoid the angmented fourth and aug mented second created between the vices if the tenor is ormanented Per bops both voices should bermach Per haps both voices shon be ornamented In any case, the performer must de cide, because Correa has not been pre cise.
There are a number of clues to help the performer select the more probable voice to ornament. These clues include: 1) an " $R$ " notated where onl ate voice moves, 2) a leading tone or other half-step in some voice, 3) a the-
matic ormament, f) a prefix written out, 5) and a clausula llana. The posbility of determining the ornamented bice by a leading tone or half-step has already been demonstrated in Example 33.

In Example 35, only the tenor moves at the point where there is an " $R$ ". Confirming evidence that the tenor must be ornamented (even without the " R ") is the fact that this is a clausula llana Example 29).
It some tientos, a redoble is used thematically by Correa. The beginning of Tiento XXVII was given in Example 34. The soprano entrance is shown in Example 36. Subsequent entries are notated similarly.
Quite often Correa wrote the opening notes (prefix) to the trilled portion of the redoble. The presence of this orefix clearly indicates the voice to which the redoble applies. These prefixes include both sencillo and reiterado types, and even double prefixes. Examples of each are given
Sencillo
(Example 37: Tiento XLIII, m. 47) Reiterado
(Example 38: Tiento XLIII, m. 15) Double Sencillo
(Example 39: Tiento XLVII, m. 63) ouble Reiterado
(Example 40: Tiento XLVII, m. 48) keiterado-Sencillo
(Example 41: Tiento XLV, m. 34)
Several observations may be made about these redobles with notated prefixes. Virtually all notated prefixes bein before the beat on which the main note falls. In most cases the portion of the redoble before the beat includes only the prefix, as in the examples just cited. But occasionally the middle of the prefix begins on the beat, leaving only one note before the beat (Example f2: Tiento XXX, mm. 15-16; redoble sencillo with double prefix). And in

## 每. 32.




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some redobles, the written-out portion before the beat includes part of the trill (Example 43: Tiento XXVII, m. 48).

A8). few redobles are written out conspletely and marked "R" as well. These tend to be very florid, and have apparently been included in this pedagogical treatise as examples of the possible variety available to the more advanced player (Example 44; Tiento I.IX, min. 19-20). In another example from the same tiento, notice that the trilled portion is stopped before the trilied portion is stopped before the
suffix (closing figure) is written out (Example 45: Tiento LIX, m. 26). (Example t5: Tiento Lix, m. 26) Several questions arise in regard to these redobles for which Correa sup-
plied a prefix and even a portion of plied a prefix and even a portion of
the trill. Should all prefixes begin bethe trill. Should all prefixes begin be-
fore the beat? Is there anty reason for fore the beat? Is there anty reason for
selecting a particular prefix? Is there any rationale for playing the redoble in sixteenth notes or in thirty-seconds?
The performer must use his own musical judgment in each context. Redobles with notated prefixes occur frequently as sixteenth wotes and as thirty-seconds. The latter may be used if it is appropriate to the general level of shythmic activity, or if tiue permits. Both reiterado and sencillo prefixes occur regularly, although double prefixes are less frequent. Varicty seems to be the desired effect.
There is no clear answer to the question concerning the metric placement of the prefix. In the examples provided with the original definition and description of the redoble (Examples 16 and 17), the prefix occurs before the beat on which the trilled portion falls. In all but four situations, there is an unadorned minim or semiminim immediately preceding the note marked " $\mathbf{R}$ " (see Examples $32-36$ ). Thus in nearly every case, there is time to play the prefix before the beat. Harmonically, the effect is also good. The examples writen out by correa in his compositions suggest that this was the ustal practice. In Example 46, there is all imitation between soprano and alto. The alto's redoble is notated with a prefix before the beat. It may be assumed that the soprano's should be played in a similar fashion (Example 46: 'Iicnto XLIX, mm. 7-9).

The four situations ill which a pre fix would not work well before the beat are all similar. In each there is movement preceding the ornamented note by fusas in either the ornamented voice or in another voice. (Example 47: Tiento XXX, m. 30).
It is not essential that the main note fall on the first of four sixteenth notes or ejght thirty-second notes. In most redables with the prefix written out, the main note does fall on stronger parts of beats. But in Examples 16 and 17 also written out by Correa - the upper note falls on these stronger parts of beats.
Finally, the redoble does not necessarily resolve upwards. Other resolutions include:
I) resolution downward, especially in the bass (Example 47) or occasionally in another voice (Example 48: Tiento IX, m. 23; this example is the first encountered in which " $R$ " is marked on a voice line)
2) resolution to the same pitch (Example 49: Tiento XLVI, m. 89)
3) no resolution: to a rest (Example 50: Tiento XLI, m. 76)
f) no resolution: final chord (Example 51: Tiento LI, m. 124).

## CONCLUSION

Considerable freedom is given to the performer in selecting and using ormaments. The comparative table of ormaments demonstrates that although the omaments described in these early Spanish sources are related to basic types (trill, turn, modent, etc.), there is considerable variety among them as well. Bermudo, Santa Marín, and Correa mention the diverse and changing styles and practices of ornamentation which varied from musician to musician. Ornamentation also varicd among such performers as singers, keyboard players and instrumentalists, and also between the organ and clavichord. Considering that ornamentation was a personal matter, that it was in a state of coustant change, and that nomenclature varied witlely, it is remarkable that there was such a continuity of style in the period under consideration.

The various guidelines given in the sources suggest that the application of ornaments was as varied as the ornaments themselves. But all are agreed that the purpose of ormaments is to make the music more "graceful" and make the music more graceful and for early Spanish music Relatively few ornaments were written out becausew was assumed that each out because it was assumed inat each performer wotld determine his own omaments. Santa Maria and Correa are agreed that nearly all longer notes (whole notes and half notes (quarter notes) may be orliamented (for example in the alternating manner of Examples 19-21). Most cadences may be ornamented, particularly on leading toncs.
Ornaments were conceived melodically and harmonically. Modality generally determined the pitches forming the intervals of each ornament. The unequal temperament excluded the use ef certain ornaments those the use of certan ornament (those requiring hitches above or below) oll specific pitches because the requred intervals forming these ormaments would sound (o) out of tune.

It should be evident that ornaments were used much more in Renaissance Spain than modern performers are accustomed to. Most modern performers have had a fairly intensise study of Bach's works, in which many ormaments bere written out a practice which was criticized by Bach's contemporaries) criticized by Bach's contemporaries), However, the modern performers should not hesitate to ombament a great deal in early Spanish music. Correa and Santa Maria advised only that some notes should be left plain for the sake of variety. The vihuelist Miguel de Fuenllana ${ }^{15}$ was the only Spanish 16 thcentury source to indicate that orna ments were not to be added by the perfommer in his own compositions. Fuenlana wrote out all the ormaments that he desired, and he disapproved of per formers who rewrote an aiready ex cellent piece." But other vihuelists such as Milan leave ormamentation up to the performer's discretion. A successful per formance of early Spanish keyboard music depends equally on the composel and on the creativity of the performer in ornamenting and "gracing" the composition.

Robert Stevenson, Juan Bermwdo (The Haguc: Martinus Nijhoff, 1960), pp. 14-15.
${ }^{2}$ Edited by Leo Schrade (Wiesbaden: Georg Loms Hildesheim, Breitkopf \& Hartel, 1967), p. 170 (Valencia: Francisco Diaz Romano,
1535). 1535).
${ }^{2}$ (Alcalá: Antonio Arnao), f. 16. Photocopy of Library of Congress copy.

- (Valladolid: Francisco Fernandez de Córdoba). Microcards of copy at Sibley Music Library, University of Rochester.
${ }^{5}$ (Os:ana: Juan de Leon, 1555). Fascimile edition by Marcario Santiago Kastner (Kaserel: Barenreiter-Verlag, 1957).
- (Alcalá de Henares: Joan de Brocar, 1557). Edited by Higinio Anglés. La Música en la Corte de Carlos V. Monumentos de la Música
Española, Volume 2. second edition revised (Barcelona: Consejo Superior de Investigaciones Barcelona: Consejo Superior de Investigaciones
Superiores Cientificas; Institulo Español de Musicología, 1965).
7 "Proemio al lector en loor de la música," Antonio de Cabezón, Obras de Música (Madrid: Francisco Sanchez, 1578). Photocopy of Library of Congress copy.
The material pertaining to Santa Maria is taken from ff. 47-51v.
${ }^{\circ}$ The material pertaining to Bermudo is taken from ff. 60v-61.
${ }^{10}$ Santa Maria was one who allowed, but found less graceful, an ornament fitting Bermudo's description: the ascending form of the cuiebro sencillo of Example 8.
${ }^{4}$ Unless otherwise specified, the material pertaining to Correa is taken from ff, 15-17, "Full details are found in "Tablature," The Harvard Dictionary of Music, Willi Apel, editor.
${ }^{14}$ This "R" does not appear in the Instituto Espaйй de Musicologia edition.
${ }^{11}$ The reader is warned that some modern editors have reduced the original note values, so that what was originally a half-note may appear as a quarter note or even an eighth note in some editions. The more truatworthy editions will specify whether a reduction has lreen
is Libro de Música para vihuela intitulado Orphenica lyra (Sevillat Martin de Montestoca, 1554). The original edition in Chicago's Newberry Library was used.

Calvert Johnson is on the faculty of Northeastern Oklahoma State University. He completed his masters and doctorate in organ at Northwestern Un: rersity. This arlicle is based on his doc. toral research project, "Spanish Renaissance Keyboard Performance Practices: An Introduction.'


Some explanation may be required concerning the use of the first "Gothic Sketch" as a processional. An examination of the work reveals that it is laid out in four distinct sections. The first, an introduction (mm. 1-29), functions as a quasi fanfare heralding the event about to take place (see Example 1) The second section (mm. ${ }^{3}$ (mo.92) is The second section (mm. of an march much more in the character of a march (see Example 2); it serves as a proessional for in brial atiendants and is sufficient in length to accommodate even a large bridal party. The third major division ( mm . 93-108) stands out as the climax of the work. It is separated from the body of the piece by a measure of rests at either end and is reserved for the procession of the bride. A brief conclusion (mm. 100 118) marks the triumphant close of the work.
Several comments regarding registra tion are in order at this point. When performed the piece for him, Lang. lais suggested that, in the event that one organ is used, the sections of reduced registration be played on the Swell (or Positif) with appropriate reductions in Pedal. Along these lines, the Tutti may well be reserved until the beginning of the third section (m. 93), substituting full crescendo pelal in the first two sections where "Tutti" is in dicated in the score. Langlais has personally suggested such a substitution on many occasions as a matter of convenience in the performance of several of his other works. With this alterna tive scheme, adequate contrast between full sections and those of reduced regisfull sections and those of reduced registration is still possible, while the full
resources of the organ are reserved both resources of the organ are reserved both
to effect the indicated change in $d y$ to effect the indicated change in dynamic level in $m$. 94 and
mark the climax of the piece. been an
Gregorian chant has always bee important element in the music of Jean Langlais. Even after the liturgical reforms of Vatican II, he has continued to use Gregorian themes, perhaps in an effort to preserie - at least in his own music - some of the rich heritage of a plainsong tradition. The two cantus firmi that he has chosen for Esquisse Gothique No 1 are indicated in the score: the hymn Veni Creator Spiritus from the feast of Pentecost, and the sequence Exultet Ecclesia from the Mass for St. Denis, patron saint of Paris.
Aside from its interest as a wedding processional, the work at hand also presents an interesting example of plainclant cantus firmus treatment in French organ literature of the twentieth century. A close look at Langlais's handling of his thematic material discloses the subte complexity of this compothe subte complexity of this compo-
ser's craftsmanship. The V'eni Creator
appears - transposed, with F final - and the first measure and undergoes one: complete statement, always in the uppermost voice, lasting to the end of permost first sections. The sequetice first appears in m . 30, also in the top voice. appears in m. 30, aso in he top voise halues of equal length; each half is seat hatves of equal length; each half is ser to a six-measure segment of inusic (stee Example 3 . A statement of the firstit
half of the canus firmus ( $\boldsymbol{m m}$. $30-35$ ) is followed immediately by a repetition is followed immediately by a repetition with contrasting registration ( mm . 36 41) ; the second half of the cantus fir18 and is similarly treated (cf. nam. $51-56$. With the
43 48 and $51-56$ ). With the clange of key in ml . 61 , the preparation for the climactic third section begins. The sequence appears in the pedal, stated, once again, in two segments of six. measures each. The interludes following the cantus firmus statements contain quotations from the theme in the uppermost voice of the manual parts (see $\mathrm{mm} .68-71$ and 79.80 ). The Vem Crentor returns for a complete statement in the pedal - at original pitch - beginning in m . 82. The climax of the piece ${ }^{s}$ begins in m .94 with the return of both themes. Separated by a tritone (the V'eni Greator transposed to D) mode, the Exultet Ecclesia to Gsharp) the two cantus firmi are contbined in stretlo (see Example 4) Erch theme in strello (see example 4). Eacle the Veni Grector entering first Com pletion of this the close of the third section. The fimal the close of the third section. The fimal
section employs only the first seven section employs only the first seven notes of the Veni Creator (with E final), twice in mm. $110-113$.
In has famous diary, Samuel Pepys. wrote: "saw a wedding in the churclu and strange, to see what delight we married people have to sce these: poor fools decoyed into our condition.'r: Stranger still, to see what delight weorganists have in providing for these sacred occasions the same, often lackneyed repertoire that we have played for many years. In this new work, we have not only an innovative wedding processional, but a fitting recital piece as well. When we finally grow weary of Jeremialı Clarke et alii, it is reassuring to know that a composer of Jean Langlais's competence has made possible a complete departure from what has gone before. To the eminent organist of Ste. Clotilde a sincere word of thanks is in order pot merely for a gencrous pift but for a significant gen tribution 10 a genre of or lite tribluich ane subsonce is are questional aul sure
-
Douglas D. Himes is Assistant University Organist at the University of Pittsburgh and director of music at the Smithfield Street Churches in downtown Pittsburgh.

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Example 2: measures 30-35
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Example 3; Sequence: Exultet Ecclesia


Example 4: measures 93-96


NOTES
${ }^{2}$ Darius Millaud's Petite Suite (Paris: Editions Max Eschig, 1957) and Ernest Bloch's Four Wedding Marches for Organ (New York: . Schirmer, 1951) are noteworthy, though ither composer is nown primarily as a contributor to the organ repertoire.
The work was first performed on 29 Novemer 1975 by Dr. Robert Sutherland Lord at he First Prestyterian Church in Sharon, Pennyivania, Paris: Editions Borinal.

Paris: Editions Bornemann, 1977. Both col
jections may be performed using two organs.
${ }^{5}$ The first performance for two organs was and Rolvert Grogan at the National Shrine of the Immaculate Conception in Washingtons, D.C.
${ }^{6}$ The reader will recall that the bride begins her entrance at this point.
? Robert
${ }^{2}$ Robert Lathan and William Matthews, eds., The Diary of Samuel Pepys, vol. 6 (Berkeley and Los Angeles, 1972), pp. 338-339; entry
for 25 December 1665 .

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Edward A. Eigenshenk died in Chicago on Dei. 4, 1977, at the age of 74, after on extended illness. He had been chairmen of the organ department af Chicago's American Conservatory of Music for many years, as wall as organist-choir director of years, as well as organist-choir director of ored by the church upon completion of

40 years' service there in 1969. Dr. Eigenshenk had also taught at Loras College Dubuque, lowa. After being a theatre organist of an early age, he had studied at the American Conservatory, where he won a gold medal for excellence in orgon playing in 1922. His European studies were with Joseph Bonnet and Louis Vierne. He was a native of Chicago.

Mrs. Carl Weinrich died in Princeton. NJ, on Nov. 12, 1977, after a long illness. Born in Paterson, NJ, she was a graduate of Bucknall University and did graduate work in psychology at Columbia Univer. sity. After high school ând private school teaching, she taught psychology of the Westminster Choir Colleg̃e, when she came to Princeton in 1934. For many years he managed her husband's concert activi he managed her husband's concert activitios.


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Zymbelstern

SWELL
ohr Gedeckt 8 bl pipes
Viola $\mathbf{a}^{\prime}$ bl Pipes
iola Celeste $\mathrm{a}^{\prime} 49$ pise
Srestont Flute $4^{\prime}$ bi pipes
Block Flute $2^{\circ}$ bl pipes
lein Jeu 111183 pipes
Fagotto $16^{\prime} 12$ pipes
rompette a' $^{\prime}$ bl pipes
Clarion 4112 pipes
Tremulant
CHOIR
Gedeckt a' al pipes
Erzabler 8' 61 pipes Nazard 2.2/3' 61 pipe: Principal 2' 61 pipes torigat $1-1 / 3^{\prime}$, 61 pipes Krummhorn $8^{\circ}$ bl pipes Tremulant

Fute $8^{\prime} 61$ positiy
Flute $8^{\prime} 6^{61}$ pipes
Octave 4' 61 pipes
Flute 4' 61 pipes
Mixture 11122 pipes
Trumpet in Chomade 8' 61 pipes
PEDAL
pipes
Contra-Bass $16^{\prime} 32$ pipes
Bourdon $16^{\prime} 32$ pipes
Pommer 16 ' 32 notes

| Flute $8^{\prime}$ | 12 |
| :--- | :--- |
| Principal $8^{\prime}$ | 32 pipes |

Principal $8^{\prime} 32$ pipes
Super Octave $4^{1} 12$ pipes
Super Octave 12 12 12
Flute 4 ' 12 pipes
Mixture 1124 pipes
Fagotto 16' 32 notes
Trumpet $8^{\prime} 32$ notes
Clarion 4 4 32 notes


Gress-Miles Organ Co., Inc., Princeton, NJ; built for St. John's Episcopal Chureh, Somerville, NJ. 2 manual and pedal, 26 Somervilie, $N$. 2 mand-state olectromechanical action. ranks; solid-state olectromechanical action.
A few registers retained from former orA few registars retained from former organ; now speaking pipes in case. Classic-
style voicing; elassic French-style reeds; style voicing; elassic French-style reeds;
favorable acoustics. Unison couplers plus favorable acoustics. Uni
Swall Octaves Graves.

> Principal $\mathrm{a}^{\prime}$
> Solicional $8^{\prime \prime}$ (Sweli)
> Voix Celeste $8^{\prime}$ (Swell)
> Octave 4 '
> Rohrpfeiffe ${ }^{2}$
Mixture IV.V
> Mixture IV.V
> $\begin{array}{ll}\text { Trompette } & 8^{\prime} \\ \text { Cromorne } & 8^{\prime \prime} \\ (5 w e l l)\end{array}$
> SWEL
> Holzgedeckt ${ }^{8}$
> Voix Celeste $8^{\prime}$ (TC)
> Flute Oetaviante 4'
> Salicional $4^{\prime}$
> Octave Celeste $1^{\prime}$
> Nasat 2.2/3' (TC)
> Octave $2^{\prime}$
Terz 1-3/5.
> Terz 1-3/5' (TC)
Quintiloete
> Suint floete $1.1 / 3$
> Scharf III-IV
> Trampette
> Cromorne $\mathbf{8}^{8}$
> Clamorne ${ }^{\prime}$
Clain
> Tremulant
> Acoustic Bass II ${ }^{32}$ PEDA
> Subbass ${ }^{16} 6^{\prime}$
Principal $8^{\prime}$
> Principal
Rohrgedeckt a' $^{\prime}$ (Great)
> Quintfloete $5 \cdot 1 / 3^{\prime}$
> Octave 4'
> Superoctave 2
> Mixture III-IV
> Basse de Cornet III 32
> Basson $16^{\prime}$
> Trompetfe 8' (Swell)
> Cromorne 4' (Swell)

Thanks to a printer＇s transposition ofter proofs had been read，the stoplist of an organ built by the Schudi Organ Company of Garland，Texas，for Lake Highlands United Methodist Church in Dallas，appearad beside the pieture and description of an instrument of similar size built by Robert L．Sipe，Inc．of Dallas for 5 t．Paul＇s Unitod Methodist Church，Cedar Rapids，lowa，in the December issue of this journal，p． 18. The editor would like to apologize to the builders and churches involved，and publish the stoplists correctly：


Schudi Organ Company Inc．，Garland， Tx：built for Lake Highlands United Meth： pedal， 47 ranks：electric action．Installa－ tion in raflective mahogany cases recessed into former chambers；façade pipes of $90 \%$ polished tin．Metal flue and reed pipes by Giesecke．Classic French－style doubla－block eonstruction and eut－to－ length $75 \%$ tin resonators．Mounted cor－ net on Great．Electric pull－down slider chests；solid－state combination action． covered naturals and ebony sharps；ivory－ faced drawknobs．Construction and in－ stallation by Marvin Judy assisted by Mark Bolden and David Zuber；dasign and layout by George Gilliam．Dedication recital by George Baker，August 14， 1977.




Robert L．Sipe，Inc．，Dallas，Texas；built for St．Paul＇s United Methodist Church Cedar Rapids，lawa． 3 manual and pedal， 31 stops， 43 ranks；electro－pneumatic ac－ tion，with movable console：Unison couplers plus Swell to Pedal $4^{\prime}$ ．New in－ strument incorporates pipework from origi－
nal Austin and Reuter rebuild of the nal Austin and Reuter rebuild of the 1950 ＇s，in building designed by the late
Louis Sullivan in 1913．Specifications pouis Sullivan in 1913．Specifications planned by the buider in consultation
with music director David Noble and with music director David Noble and Phillips．Dedication recital by Dr．Allen Birney，September 18 GREAT
Bourdon $16^{\prime} 61$ pipes
Principal 日＇$^{\prime} 61$ pipes
Spitzflöte $8^{\prime}$ bt pipes
Octave $4^{\prime \prime} 61$ pipes
Super Octave $2^{2}$＇ 61 pipes
Mixture IV．V 274 pipes
Mixture iv． 274 pipes
POSITIV

Spillfläte 4＇ 61 pipes
Principal $2^{\prime} 61$ pipes
Quinte $1.1 / 3^{\prime} 61$ pipes
Cymbel 111183 pipes
Cromorne $9^{\prime} 61$
pipes
Cromorne $8^{1} 61$ pipe
Tremulant
SWELL
8． 61 pipe
Viole de Gambe $8^{\prime} 61$ pipes
Viole Celeste $8^{\circ}(F F) 56$ pipes
Viole Celeste $8^{\circ}$（FF） 56 pipes
Rohriföte B＇$^{\prime} 61$ pipes
Nachthorn $4^{\prime} 61$ pipes
Nasard $2 \cdot 2 / 3^{\prime} 61$ pipes
Block ${ }^{\prime}$ löte 2＇ 61 pipes
Tierce $1-3 / 5^{\prime} 61$ pipes
Scharf 111 －IV 232 pipes
Bosson $16^{\prime} 61$ pipes
Hautbois $8^{\prime} 61$ pipes
Tremulant

## PEDAL

Resultantbass $32^{\prime}$（Subbass）
Principal $16^{\prime} 32$ pipes
Subbass 16 ＇ 32 pipes
Bourdon 16＇（Great）
Octave $8^{\prime} 32$ pipes
Bourdon ${ }^{\prime}$（Great）
Choralbass 4＇ 32 pipes
Mixfure IV 128 pipes
Mixture ${ }^{\text {Possune }} 16^{\prime} 38$ pipes
Trompete $8^{\prime} 12$ pipes

## Restored Organ

E．M．Skinner，Op． 713 （1928），First Presbyterian Church，Wilmington，NC；re－ stored by A．Thompson－Allen Co．of New Haven，Ct． 3 manual and pedal， 33 ranks． Restoration without alteration of original Restoration without alteration of original sary rededication recital played by Charles Wary rededication recirtal played by Charles Whurch，January 22.
GREAT
Bourdon 16＇（Pedol ext．） 17 pipes
First Diapason $8^{4} 61$ pipes
Second Diaposon 8＇ 61 pipes
Erzähler $8^{\prime}$ bl pipes
Octave 4＇ 61 pipes
Grave Mixture II 122 pipes
Tuba $\mathrm{B}^{\prime}$（in Choir box） 73 pipes
French Horn $\mathrm{Q}^{\text {e }}$（in Choir boox） 73 pipes
Cathedral Chimes（in Swell box） 20 tul
Cathedral Chimes（in Swell box） 20 tubes
SWELL
Aourdon $16^{\prime} 73$ pipes
Diapason 日＇ 73 pipes
Rohrflute $8^{\prime} 73$ pipes
Solicional 月＇$^{\prime} 73$ pipes
Voix Celeste $\mathbf{8}^{\prime} 73$ pipes
Flute Celeste II $\mathbf{8}^{\prime}$ I 134 pipes
Flute Celeste $1 / 8^{\prime}$
Octave $4^{\prime} 73$ pipes
lute Triangulaire 4＇ 73 pipes
Harmonic Piccolo $2^{\prime} 61$ pipes
Mixture 111183 pipes Contra Oboe $16^{\prime} 73$ pipes Trumpet $8^{\prime} 73$ pipes
Yox Humana 日＇$^{\prime} 73$ pip Tremolo

CHOIR
Gamba 日： 73 pipes
Concert Flute $\mathbf{B}^{\prime} 73$ pipes
Dulciana 8＇ 73 pipes
lute 43 pipes
Clarinet $8^{\prime} 73$ pipes
Harpl
Celesta］\＆1 bars
Tremola
PEDAL
Dispason 16 ＇ 32 pipes
Bourdon 16＇ 32 pipes
Echo Bourdon $166^{\prime}$（Swell） 32 notes Octave $8^{\prime} 12$ pipes
Gedeckt $8^{1} 12$ pipes
Still Gedeckt $8^{\prime}$（Swell） 32 notes Still Gedeckt $8^{\prime}$（Sweli） 32 noles
Super Octave 4＇ 12 pipes Super Octave
Contro Oboe 16＇（Swell） 32 netes

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Calendar

The deadline for this colendar is the 10th of the preceding month (Jan. 10 for Feh. issue), All events are assumed to be organ recital, unless otherwise indicated, and are recilais, uniess otherwise indicated, and are
grouped from east to west and north to grouth within each date. Calendar informa-
sour tion should include artist name or event, tote, location, and hour, incomplete information will not be accepted. THE DIAPASON regrets that it cannot assume responsiSON regrets that it cannot assume responsi-
bility for the accuracy of entries in the bility for
colendar.

## UNITED STATES <br> 6 JANUARY East of the Mississippi <br> David A Weadon; Calvary Episcopal, Burnt

 Hills, NY 7:30 pm
## 7 JANUARY

Victor Hill, harpsichord; Williams College, Williamstown, MA 8 pm

## 8 JANUARY

Thomas Richner; 1st Church of Christ Scientist. Boston, MA 3 pm
Victor Hill, harpsichord; Williams College, Williamstown, MA 8 pm
NY Kammermusiker; NY City Museum, New York, NY 2 pm
Poulenc Gloria; St Bartholomews Church, New York, NY 4 pm
Bach Cantala 124; Holy Trinity Lutheran, New York, NY 5 pm
NY Kammermusiker; Immanuel Lutheran, New York, NY 5 pm
Joshua Singer; St Thomas Church, New York, NY 5:15 pm
David A Weadon, all-French; All Saints Cothedral, Albany, NY $5: 30 \mathrm{pm}$
Harold Stover; First Presbyterian, Red Bank, NJ 4:30 pm
Richard W Osborne; Cothedral of Mary Our Queen, Baitimore, MD 5:30 pm
Frauke Haasemann, alto; W. Thomas Smith, organ; First Presbyterian, WinstonSalem, NC 8 pm
Gearge Jones; St Philips Cathedral, Atlonta, GA 5 pm
Dorothy Addy; Coral Ridge Presbyterian Ft Lauderdale, FL 4:30 pm
Lauderdale, FL 4:30 pm
Karel Paukert. Art Museum, Cleveland, OH 2:30 pm
August Humer, organ dedication; Trinity Episcopal Cathedral, Cleveland, OH 3:30 pm
"Deo Gracias Family Concert"; St James United Methodist, Chicago, IL 4 pm
Wolfgang Rübsam, all-Bach; Northwestern U, Evanston, IL 5 pm

## 9 JANUARY

Gerre Hancock; Middlebury College, VT 8:15 pm
Virgil Fox; Brown HS, Kannapolis, NC 7:45 pm
Steven L Egler with Frances Shelly, flute; Rosedale Gardens United Presbyterian, Livonia, MI 7 pm

## 10 JANUARY

David Craighead; Church of the Ascension, New York, NY 8 pm
David A Weadon; Ist Presbyterian, Gloversville, NY 8 pm
Russell Hellekson; Catawba College, Salisbury, NC 8:15 pm
Albert Williams, organ \& harpsichord, Christ Church, Cineinnoti, OH 12 noon

## 11 JANUARY

Music of Herbert Howells; St Thomas Church, New York, NY 12:10 pm
Jonathan Dimmock; St Johns Church, Jonathan Dimmock; St
Washington, DC 12:10 pm
Larry Allen \& Linda Milter; Magnolia St Boptist, Greensboro, NC 8 pm

## 12 JANUARY

Virgil Fox; Opera house, Orangeburg, C 8 pm
Terry Charles; Kirk of Dunedin, FL 8:15

## 

13 JANUARY
Lorry Allen \& Linda Miller; First Presbyterian, Danville, VA 8 pm
Terry Charles; Kirk of Dunedin, FL 8:15 pm
Frauke Haasemann, alto; W Thomas Smith, organ; Wittenberg U, Springfield, OH 8 pm

## 14 JANUARY

Play of Herod; Christ Church, 5 Hamilton, MA 5 pm

Mary Fenwick; St Thomas Church, New York, NY 5:15 pm
Neil Tilkins, piano; Cathedral of Mary Our Queen, Baitimore, MD 5:30 pm
Charles Callahan; St Davids Church, Ballimore, MD 8 pm
Larry Allen \& Linda Miller; St Pauls Epis copal, Richmond, VA 5 pm
Russell Heliekson, 1st Presbyterian, Burlington, NC 5 pm
Tim Smith; Covenant Presbyterian, Char lotle, NC 7:30 pm
Richard Bunbury; St Philips Cathedral Atlanto, GA 5 pm
George Novak; Coral Ridge Presbyterian, Lauderdale, FL 4:30 pm
Karel Paukert; Art Museum, Cleveland, OH 2:30 pm
Frauke Haasemann, alto; W Thamas Smith, organ; First Congregational, Columbus, OH 8 pm
Marilyn Keiser; Seventh-Day Adventist, Kettering, OH 8 pm
Larry Palmer, harpsichord; 1st Presbyterian, ft Wayne, IN 8 pm
Steven Egler; Redeemer Lutheran, Evans ville, IN 4 pm
Northwestern $U$ ensemble; St Paul Lu. Meran, Skokie, IL 7 pm

## 16 JANUARY

Carolyn Lipp \& Donald Williams; Concordla College chapel, Ann Arbor, MI 8 pm

## 17 JANUARY

Virgil Fox; Metropolitan Museum of Art,
New York, NY 8 pm
Novie Greene, harpsichord; St Lukes Cathedral, Orlando, FL 8 pm

## 18 JANUARY

Music of Herbert Howells; St Thomas Church, New York, NY 12:10 pm
Marilyn Mason; St Peters Lutheran, New York, NY 8 pm
Larry Allan, with Linda Miller, soprano; St Johns Church, Washington, DC 12:10 pm

## 19 JANUARY

James Cochran, Joseph Kimbel, with in struments; Susquehanno U, Selinsgrove, PA 8 pm
Lorry Allen \& Linda Miller, Kennedy Center, Washington, DC 1 pm

## 20 JANUARY

Eastarn Brass Quintel; Immanual Congregational, Hartford, CT 8 pm
Alumni recital; State University College,
Potsdam, NY 8 pm

21 JANUARY
Robert Lodine, "Salurday School" (191h C organ music); St James Cathedral, Chicago, IL I:30 pm

## 22 JANUARY

*Organ recital; St Pauls Episcopal, Wil limantic, CT 4 pm
Gounod Messe Solennelle; St Bartholomews Church, New York, NY 4 pm
Bach Cantata 78; Holy Trinity Lutheran
New York, NY 5 pm;
Nancy Shearer; St Thomas Church, New York, NY 5:15 pm
J Melvin Butler, silent movie feature
J Melvin Butler, silent movie feature;
Downtown Presbyterian, Rochester, NY 7 pm
Myron Leet, Beverly Ratcliffe, double orMyron Leet, Beverly Ratcliffe, double or-
gan recital, First Presbyterian, Wilkes-Barre, gan recital,
PA 3:30 pm
A $3: 30 \mathrm{pm}$
Baroque winds \& strings; Cathedral of
Mary Our Queen, Baltimore, MD 5:30 pm
Charles Woodward; First Presbyterian, Wilmington, NC 5 pm
Soloists \& chamber ensemble, St Philips Cathedral, Atlanta, GA 8:30 pm
Virgil Fox, Paramount Theatre, W Palm Beach, FL 3 pm
John Bertolette; Coral Ridge Presbyterian, Ft Lauderdale, FL 4:30 pm
Hale-Wilder concert; First Presbyterian, Ft Louderdale, FL 8 pm
Karel Paukert; Art Museum, Cleveland, OH 2:30 pm
Bach Cantatas 106, 140, Fairmount Presbyterian, Cleveland Heights, $\mathrm{OH} 4,30 \mathrm{pm}$
Walfgang Rubsam, all-Bach; Northwestern
U, Evanston, IL 5 pm

## 24 JANUARY

John Bertalal, music for organ, harps chord \& voices; St Thomas Church, New York, NY 7:30 pm
Eleanor Clark, soprano; Church of Ascen sion hall, New York, NY 8 pm
Lenore Hotfield, violin; Christ Church
Cincinnasi, OH 12 noan
Thomas Weisflog: Rockefeller Chapel, U
of Chicogo, IL. B pm

## 25 JANUARY

Music of T Tertius Noble; St Thomas Church, New York, NY 12:10 pm
Albert Russeil, with violin \& flute, 5 Johns Church, Washington, DC 12:10 pm
Robert Anderson; Art Museum, Cleveland
OH 8:30 pm
Virgil Fox; Music Hall, Cincinnati, OH 8 pm

26 JanUary
Joseph R Kimbel, Bucknell U, Lewisburg
PA 8:15 pm
Virgil Fox, masterclass; Watson Recital Hall, Cincinnati, OH 7:30 pm

27 JANUARY
Don Rolander; St Pouls Episcopal, Jocksonville Beach, FL 8:30 pm

## 29 JANUARY

Marshall Bush, all-Bach; First Baptist,
Keene, NH 4 pm
John O'Donnell; Dwight chapel, Yale U,
New Haven, Ct 8:30 pm
Walton Belshazzars Feast; St Bartholo-
mews Church, New York, NY 4 pm
Bach Cantata 18; Holy Trinity Lutheran,
New York, NY 5 pm
Marilyn Ballantine; St Thomas Church, New York, NY 5:15 pm
David Hurd; Reformed Church, Oradell,
NJ 4 pm
Martine Johns, mezzo-soprano; Bryn Mowr Presbyterion, Bryn Mawr PA 4 pm
Greg Funfgeld; Trinity Lutheran, LancasGreg Funt
r, PA 5
James Dale; US Naval Acodemy, Annapolis, MD 3 pm
Lindo Kobler, piano; Cathedral of Mary Our Queen, Baltimore, MD $5: 30 \mathrm{pm}$
Dave Bergeron; St Philips Cathedral, At-
anta, GA 5 pm
Ken Saliba; Coral Ridge Presbyterian, Ft lauderdale, FL 4:30 pm
Karel Paukert; Art Museum, Cleveland, OH 2:30 pm
Huw Lewis; St Pauls Episcopal, Lansing, MI 4 pm
Elizabeth Downie; Zion Lutheran, Ann Arbor, MI 4 pm

William Bates: Friedens United Church of Christ, Indianapolis, IN 8 pm
Shirley Love, mezzo; Independent Pres byterian, Birmingham, AL 4 pm
Lee Nelson, dedication; Holy Trinity Lu theran, Lombard, IL 3 pm

## 31 JANUARY

Virgil Fox; Academy of Music, Philadelhia, PA 8 pm
Judith \& Garre Hancork: Bradley Hills Presbyterian, Bethesda, MD 8 pm
John Fenstermaker; All Saints Episcopal, Atlanta, GA 8:15 pm
Donald Williams, masterclass; Arts Academy, Interlochen, MI

## 1 FEBRUARY

Bruce Henley; St Johns Church, Washing. on, DC 12:10 pm
Donald Williams, masterclass; Arts Academy, Interlochen, MI

## FEBRUARY

John Rose; Trinity College, Hartiord, CT 8:15 pm
Charles H Finney, all-Bach; Houghton College, NY 8 pm
Garre Hancock; lst Presbyterian, Nash ville, TN 8 pm

## 4 FEBRUARY

Virgil Fox; Kingsborough Theatre, Brook.
ym , NY 8 pm
Daniel Roth, masterclass; 1st Presbyterian, urlington, NC
St Olaf Choir; Grace Lutheran, Glen Ellyn,
iL 7:30 pm

## FEBRUARY

Robert Schuneman, Bach Clavierjbung III; st Church Congregational, Cambridge, MA 5 pm
Syntagma Wilimantica; South Congregational/lst Baplist, New Britain, CT 5 pm
Larry R Rootes, all-Bach; St Johns Church Southampion, NY 4 pm
Morart Requiem; St Bartholomews Church, New York, NY 4 pm

Bach Cantata 127; Holy Trinify Lutheran, New York, NY 5 pm
Honegger King David; Church of the Ascension, New York, NY 8 pm
Marianne \& John Weaver; Sacred Heart Cathedral, Newark, NJ 4 pm
Navesink Woodwind Ensemble; United Methodist, Red Bank, NY 4 pm
Peter Brown; Good Shepherd Lutheran, Loncoster. PA 8 pm
John Stover, classical guitar; Cathedral of Mary Our Queen, Baltimore, MD 5:30 pm Randalt Mullin; St Andrews Church, Ar-
lington, VA 5:45 pm
Daniel Roth; ist Presbyterian, Burlington, NC 5 pm
Richard Peek, with Dale Higbee, recorder: Covenant Presbyterian, Charlotte, NC 3 pm William E Krape; St Philips Cathedral Allanta, GA 5 pm
Mary Costa, soprano; First Presbyterian, Ft Lauderdale, FL 8 pm

Karel Paukert; Art Museum, Cleve!and OH 230 pm

St Johns Choir of Detroit St Michaels in the Hills, Toledo, $\mathrm{OH} 7: 30 \mathrm{pm}$
Robert Glasgow; Central United Metho dist, Detroit, MI 4 pm
Philip Gehring, with Schola Contorum; Volparaiso U. IN 4 pm
"A Day for Dancing:" Independent Presbyterian, Birmingham, AL 4 pm
John Callahan; Bethiehem Center Chapel, John Callahan; Bethiehem
La Grange Park, IL 3 pm
Kirstin Synnestvedt, CCWO lecture-demonstration; United Methodist, Glenview, IL 4 pm
Wolfgang Rübsam, all-Bach; Millar Chapel, Northwestern U, Evanston, IL 5 pm
Marianne Webb; Free Methodist, Green-
ville, IL 3 pm ville, IL 3 pm

## 6 FEBRUARY

Mary Beekman; Mem Church, Harvard U, Cambridge, MA 8 pm
Virgil Fox; E Carolina U, Greenville, NC 8 pm

## 7 FEBRUARY

Diane Waish, piano; Church of Ascension
hall, New York, NY 8 pm
Robert S Lord; Heinz Chapel, U of Pittsburgh, PA 12 noon

B FEBRUARY
Fouré Messe basse; St Philips Cathedral, Atlanta, GA 6 pm

## 9 FEBRUARY

Ray Bohr; Kirk of Dunedin, FL 8:15 pm

## 10 FEBRUARY

Ray Bohr; Kirk of Dunedin, FL. 8:15 pm
Stephen Cushman; 4th Presbyterian, Chi cago, IL 12:10 pm

## 11 FEBRUARY

Robert Glasgow, masterclass; Hartt College, Hartford, CT 10 am
Virgil Fox; Indiana U aud, Bloomington IN 8 pm

12 FEBRUARY
Robert Glasgow; Immanuel Congregational, Hartford, CT 8 pm
Rodney Wynkoop; Dwight Chapel, Yoie U, New Haven, CT 8:30 pm
Jerry Brainard, harpsichord; chapel, Riverside Church. New York, NY 2:30 pm
Vaughan Williams Pi!grims Journey;
Bartholomews Church, New York, NY 4 pm
Michael May; Immanuel Lutheran, New
York, NY 5 pm
Howard Vogel, St Stephens Church, Millburn, NY 4 pm
St James Chamber Singers; Cathedral of Mary Our Queen, Baltimore, MD 5:30 pm Bach marathon; St Davids Church, Baltimore, MD 8 pm
Charies Woodward, St Philips Cothedral, Atlanta, GA 5 Pm
Allanto, GA 5 P
Don Rolander; Coral Ridge Presbyterian,
ft Lauderda'e, FL 4:30 pm
Bach Out of the Darkness; St Michaels in
the Hills, Toledo, OH 10 am
Karel Paukert; Art Museum, Cleveland, OH 2:30 pm
Gearge Baker; Seventh-day Adventist, Ket lering, OH 8 pm
*John Pagett, Dupré Stations of the Cross;
Fountain St Church, Grand Rapids, MI 8 pm
Luther College Choir; 1st Presbyterian, Ft Wayne, IN 8 pm
David Palmer; Redeemer Lutheran, Evans ville, IN 4 pm
Robert Reeves; St Paul Lutheran, Skokie,

## 品

AGO chapter program
(Continued overleof)

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Edward Kiammer; Christ Memorial Luther-
an, Affton, MO 7:30 pm
Herman Berlinski; St Marys Cothedral,
San Froncisco, CA 8 pm
Robert Trip!ett; Blessed Sacrament Church, Hollywood, CA 4 pm

30 JANUARY
William Whitehead; Southwestern Baptist Seminary, ft Worth, TX 8 pm

31 JANUARY
William Whitehead, workshop; SW Baplist Seminary, Ft Worth, TX

5 FEBRUARY
Doane College Choir; 1st-Plymouth Congregational, Lincoln, NE 7:30 pm
Donold Zimmermann; 5 t Johns Cathedral,
Denver, CO 4 pm
Organ recital; St Bedes Episcopal, Menlo Park, CA 8 pm
Youth choir workshop \& festival; Westminster Presbyterian, Pasadena, CA 4 pm, 7 pm

7 FEBRUARY
Corl Staplin; Baylor U, Waco, TX 8 pm
8 FEBRUARY
Quentin Faulkner; 1st-Plymouth CongregaHional, Lincoln, NE 12:10 pm
Car! Staplin, workshop; Baylor U, Waco, TX am \& pm

## 10 FEBRUARY

Nicolas Kynaston; First Congregational,
Los Angeles, CA 8 pm

## 12 february

Dona!d Wilkins; Christ Church Cathedral, New Orleans, LA 4 pm
Gordon \& Helen Betenbaugh, with instruments; Westminster Presbyterian, Lincoln, NE 4 pm

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Alliance, Ohio 44601
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Recitals
*Nicolas Kynaston; 1st Armenian Presby terian, Fresno, CA 3:30 pm
Elfrieda Baum; St Marks Episcopal, Glendale, CA 4 pm

15 FEBRUARY
George Ritchie; 1 st-Plymouth Congrega tional, Lincoln, NE 12:10 pm
*AGO chapter program INTERNATIONAL

6 JANUARY
Schütz Christmas Story; St Christophers Church, Burlington, Ontario 8 pm

15 JANUARY
John MacIntosh; Aeolian Town Hall, London, Ontario 8:30 pm

20 JANUARY
Claude Lagacé; Grace Presbyterian, Cal gary, Alberta B:30 pm

31 JANUARY
Arthur Wills; St Bartholomew the Great, Londan, England 5:45 pm

2 FEBRUARY
Richard Morris; Capitol Theatre, N Bay, Ontario 8:30 pm

5 FEBRUARY
Guy Bovet; Church, Nyon, Switzerland 5 pm

8-11 FEBRUARY
Guy Bovet; Theatre, Lausanne, Switzerland 9 pm

12 FEBRUARY
Jan Overduin; Aeolian Town Hall, London, Ontario 8:30 pm

15 FEBRUARY
Guy Bovet; Theatre, Lausanne, Switzerland 9 pm

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McCray, James, conducts new work. Feb/7
Michaud, Joseph, retires. Jun/9
Noehren, Robert, named emeritus. Jan/5
Norden, Warren E, honored. Jun/9
Northrup, Edwin D, returns to consulting.* Jun/ 13

Obetz, John, completes 10 years of broadcasts. * Dec/ 16
O'Dannelı, John, leads workshop. Mar/19
Otsen, Judith, new work performed. Jan/5
Peabody Instifute reorganized. Feb/7
Peek, Richard, ce,ebrates 25 :h anniversary.* Dec/15
Pendarecki, Krzystof, conducts premiere. Apr/ 12
Petrajh, David, receives award.* Jun/ 15
Porter, Samuel, joins management.* Feb/9
Raver, Leonard, leads convocation. Jun/14
Rayfield, Robert, honored. Feb/17
Rorem, Ned, to write new orgon work. Jan/5 Roth, Robert, receives award. Jul/7
Rowel, Lois, prepared Hindamith work. Jan/

Sampson, Edward J Jr, elected at Methuen.* Apr/12
Stofer, Robert Mu retires. Jan/3
Tha'ben-Ball, George, visits Canada.* Aug/ 16
Twynham, Robert, wins award. Jul/7

Veselá, Alena, to tour US.* Aug/15
Williams, David McK., celebrates 90th birthday. Mar/8
Wi:liams, John E. plays new work. Mar/19
Youngs, Scott Alan, wins competition. Jul/7

## ORGAN STOPLISTS

Abbott and Sieker
1st Presbyterian, San Bernardino, CA. 2-man.* Mar/13
James Pressler residence, Hollywood, CA. 2-man tracker.* Sep/18
Presbyterian Church, La Crescenta, CA.
2-man.* Dec/21

## Andover

Cathedral Church of St . Paul, Boston, MA. 2 man. tracker. Mar/20

## Anonymoust

Christ Lutheran, LaVale, MD. 2-man.* Jan/ 12

Austin
Community Church, Niantic, CT. 2-man. Nov/21
Northern Ariz. U, Flagstaff. 3-man. Jan/ 15
Purity Presbyterian, Chester, SC. 2-man. Dec/20

St James by the Sea Episcopal, La Jolla, CA. 4-man. Mar/13
Trinity Episcopal, Asheville, NC. 3-man.

## Aug/18

## Bedient

Wes.ey House chapel, U of Nebraska,
Lincoln, 2-man tracker.* Nov/21

## Beckerath

Holy Innccents Episcopal, Lahaina, Mavi, HI. I-man tracker.* Apr/19
Chapel, 2nd Presbyterian, Richmond, VA. 1-man tracker.* Sep/18

## Bozeman-Gibson

Redeemer Evangelical Lutheran, Robbinsda.e, MN. 2-man tracker.* Oct/14
Squirrel Is.ond Chapel, ME. I-man tracker.* Nov/18

Bunn-Minnick
Gethsemane Lutheran, Worthington, OH . 2-man.* Jan/ 15

## Casavant

1st Presbyterian, Ferguson, MO. 2-man, tracker.* Dec/20
Ist United Presbyterian, Pennington, NJ. 2 man. Oct/15
Green Lake Church of Seventh-Day Adventists, Seattle, WA. 3-man. Aug/19
Trinity Church, Princeton, NJ. 4-man tracker. Jan/ 12

## Clay

Eugene Ciay residence, Yucca Valley, CA. 2-man tracker.* Dec/2

## Delaware

St Agatha Church, Columbus, OH. 2-man.* Nov/19

## Dobson

Olivet Congregational, St Paul, MN. 2man tracker.* Sep/18

## Fisk

Central Christian, Huntington, IN. 2-man racker.* Mar/12
NC Scioal of the Arts, Winston Saiem 3-man tracker.* Dec/18
St. Peter's-St. Andraw's Episcopal, Providence, RI. I-man tracker.* Aug/is

## Fientrop

California Siate U, Chico. I-man tracker.* Oct/17
Duke University Chapel, Durham, NC. 4.man tracker.* Mar/3

## Fritzsche

Christ United Church of Christ, Latrobe, PA. 2-man. Mar/12
1st Presbyterian, Blairstown, NJ. 2-man Apr/18
St. Johns United Church of Christ, Lansdaie, PA. 3-man. Jun/ 11

## Greanwood

1st United Methodist, Jackson, AL. 2-man, Oct/17
Mt Vernon Baptist, Durham, NC. 2-man. Apr/18

## Gress-Miles

Resurrection Lutheran, Spring, TX. 2-man.* Jul/11

Trinity Episcopal, Parkersburg, WV. 3man.* Oct/15

Harris
Christ the King Lutheran, Mt. Pleasant, MI. 2-man.* Nov/18

Ist Friends Church, Whiltier, CA. 4-man.* Dec/19

## Hemry

Zion Lutheran, Akron, OH. 3-man. Mar/21

## Holloway

1st Baptist, Marion, IN. 2-man. Mar/12

## Holtkamp

Rebuilt for Texas Tech U, Lubbock. 3-man. Feb/12

## Hook and Hastings

Restored by Lawrence Ingo.d Co. for
Trinity Episcopal, San Jose, CA. 3 -man. Apr/20

## Jardine

Restored for residence of Thomas R.
Thomas, Jupiter, FL, I-man of Thomas R.

Johnson
Trinity Lutheran, Fargo, ND. 2-man.* Apr/ 21

Kney
Christ Church, London, Ontario, 2-man racker. Apr/21
St. Thamas Anglican Church, Belleville Ontario. 2 -man tracker.* Dec/21

Lewis and Hitchoosk
1st Baptist, Newport News, VA. 2-man.* Nov/18
Presbyterian Church, Leesburg, VA. 1man.* Sep/ 19

## McManis

Christ Episcopal, Overland Park, KS, 2 man.* Sep/19

Miller
Hillerest Covenant Church, Prairie Village, KS. 2-man. Jun/11

## Noack

1st Lutheran, West Seattle, WA. 2-man tracker.* Sep/ 19
Our Shepherd Lutheran, Tulsa, OK. 2-man tracker.* Oct/17

## Nordlie

Ist United Methedist, Appleton, MN. Imon, tracker.* Nov/19

## Oberlinger

$U$ of Massachusetts, Amherst, 3 -man tracker,* 2-man tracker.* Aug/19

## Peterson

Chapel, 1st Presbyterian, St. Worth, TX. 2-man.* Jan/14

## Redman

1st Presbyterian, Lafayette, LA. 2-man tra,ker.* Mar/20
Reuter
1sf Presby:erian, R=d Ea k, NJ. 3-man.* Oct/14

## Rufiatti

Garden G*ve Commuriy Chuch G:r den Grove, CA. 5 ma7.* Oct/16

## Rugges

David L Masisby residence, Ft Cュ lins, CO. 2 man. track r.* Feb/16

## Schantz

Munholland United Meth=dist. Melairie,
LA. 3-mon. Dec/ 20

## Schoenstein

Rebuid of Ho'tkamp for chapel, Central Union Church, Honolulu, HI. 2-man. Mar/21 Schudi

St Pauls United Methedist, Ty er, TX 2-man. Feb/ 16
Sipe
Ist Presbyterian, Dallas, TX. 3-man tracker.* Apr/21

St Paul's United Mathodist, Cedar Rapids,
1A. 3-man.* Dee/18 (ecrrected La: 78/19)
Trintly Lutheran, FI Worth, TX. 2-man tracker.* Oct/15

## Visser-Rowland

Pi'grim Lutheran, Hzuston, TX. 2-man rracker.* Dec/19

Villa de Matel chapel, Houston, TX, 2-man tracker.* Ssp/18

Wahl
James Martell residence, Marinette, WI.
2-man tracker.* Nov/19
St Mary's College, Notre Dame, IN. 2man trazker.* Jul/11

## Walters

Rebuild of Pilcher/Aeolion-Skinner, United
Methadist, Leesburg, FL 3-man, Jan/14
Wicks
1st Baptist, Solem, IL. 3-man. Apr/21
St Andrews Episcopal, ft Pierce, FL, 3-
man.* Aug/18
Wolff
St Thomas Church, Hanover, NH. 2-man
tracker.* Nov/20

* with photograph
* with photograph
\# with diagram


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