



Benjamin Gaffney
Massachusetts Institute of Technology

Four Medals Awarded to Students During 1999

In 1999 the fourteenth year of the Robert Bradford Newman Student Award Medal Program, four students were selected to receive the medal "For Merit in Architectural Acoustics". All recipients attended architectural schools previously represented by medalists in past years, including the Massachusetts Institute of Technology, where two students were recipients of medals this year.

Benjamin Gaffney

Massachusetts Institute of Technology
Optimal Design of Acoustical Elements of HVAC Systems

Angela Holm-Rowe

Roger Williams University
Acoustical Analysis: The New Padanarum Summer Playhouse

Michael Christopher Monks

Massachusetts Institute of Technology
Audiooptimization: Goal-Based Acoustic Design

Benjamin C. Seep

The University of Kansas
Preparation of Text and Illustrations for Booklet on Classroom Acoustics for Technical Committee on Architectural Acoustics of ASA

Concert Hall Acoustics Summer Institute Workshop, at Tanglewood, August 1999

The newly established Concert Hall Acoustics Summer Institute held its first 4-day Workshop in August 1999, at Tanglewood, the Boston Symphony Orchestra's summer home in Lenox, MA.

The Workshop, Tanglewood 99, was sponsored by the Concert Hall Research Group (CHRG), with the cooperation of the Acoustical Society of America, ASA's Technical Committee on Architectural Acoustics, the National Council of Acoustical Consultants, and the Robert Bradford Newman Student Award Fund.

Attendees included students, architects, acoustical consultants, and researchers in the design of music facilities. Twelve students received CHRG-funded grants to cover part or all of the expenses involved, including fees, room and board, and travel expenses. The Institute was conceived and organized by Bill Cavanaugh and Tim Foulkes of the CHRG, and also members of the Newman Fund Advisory Committee.

Lecturers gave six 3-hour workshops:

- John Bradley, on "Concert Hall Acoustics Measurements".
- Russell Johnson, Robert Wolff, and Andrew Monro, on "Design of Concert Chambers".
- Leo Beranek, on "Critical Factors in Concert Hall and Opera House Design".
- Larry Kirkegaard, on "Concert Halls in Search of an Acoustic Aesthetic".
- Chris Jaffe and Paul Scarborough, on "Concert Halls for a New Century".
- Dick Campbell and Mendel Kleiner, on "Auralization and Modeling".

The first evening Gary Siebein gave the Keynote Lecture after the performance of Beethoven's Ninth Symphony, with the Boston Symphony Orchestra (BSO), conducted by Maestro James DePreist in Tanglewood's Koussevitsky Music Shed.

The next day David Sturma, Director of Tanglewood Facilities, led participants on a "behind-the-scenes" tour of the Tanglewood

campus. Then participants reconvened at Highwood Manor House on the campus for a round-table discussion of music performance and listening issues with the Tanglewood staff.

At the workshop on the third day participants listened to music in Seiji Ozawa Hall and attended a rehearsal of the Boston Pops Orchestra, conducted by John Williams in the Music Shed.

On the final day participants attended lectures by Yoichi Ando, on "Concert Hall Acoustics, Blending Music Performances, Sound Fields, and Listeners", and by Jerry Hyde, on "Overview and Endnote Remarks". The four-day intensive, educational experience ended with an open-forum discussion, focusing on the art, science, and technology of concert hall design.

Participants received a book of notes, prepared to complement the lectures and workshops, as well as two books, made available through the generosity of the Newman Award Fund: Leo L. Beranek's "Concert and Opera Halls: How They Sound" (Acoustical Society of America, 1996) and "Architectural Acoustics: Principles and Practice", edited by W. J. Cavanaugh and J.A. Wilkes (John Wiley, 1999).

Attending students and faculty members were affiliated with 17 universities in Australia, Canada, Denmark, England, France, Greece, Japan, New Zealand, Sweden, and the United States, many of which have had Newman Medalists during past years.

In the workshops the design, construction and evaluation of many successful new halls for music were described, along with the presentation of data documenting their objective acoustical characteristics. It was evident from the lectures and workshops that much progress on concert hall acoustics has been made during the last half of this century. However, as noted by Dr. Bradley, when concluding his workshop, "There is clearly more to do."

For information on future CHRG Institute workshops, contact CHRG, at 978-443-7871, or E-mail: tfoulkes@cavtucci.com

Schultz Grant Announced for 2000

In 2000 the Newman Student Award Fund plans to award its fifth grant available to teachers and researchers in architectural acoustics education. The grant is named in memory of Theodore John Schultz, a distinguished architectural acoustician and charter member of the Newman Fund Advisory Committee.

The grant provides a partial support for the development of improved teaching methods, new curricula, or research in architectural acoustics education. Applicants must have teaching experience in acoustics and should manifest a strong desire to develop improved methods of teaching architectural acoustics.

Applicants should send a curriculum vitae, a letter describing how the grant will be used, and an outline budget indicating expenses for which support is being sought. Applications and attachments should be postmarked no later than 3 June 2000 and mailed to:

Schultz Grant
c/o Newman Student Award Fund
P.O. Box 6349
Lincoln, MA 01773

For further information, applicants are encouraged to contact Carl Rosenberg (617-499-8052) or Bill Cavanaugh (978-443-7871).

Award Fund Concert Planned for May 9th

On the evening of May 9, 2000, there will be a concert at the home of Mary Shaw Newman, in Lincoln, featuring the New Liberty Jazz Band. This annual event welcomes all who are interested to enjoy an evening of music and refreshments.

Availability of Teaching Aids Developed by Recipients of Schultz Grants

Several teaching aids which have been developed by past recipients of Schultz Grants are available. These include the following:

1. **"Demonstrations of Basic Acoustical Principles Using Scale Models"** (1990 Grant) This video tape (36 min., VHS only) was developed by Professor Gary W. Siebein, Director of the University of Florida's Architecture Technology Research Center (\$50)
2. **"An Appreciation of Acoustics"** (1992 Grant) by K. Anthony Hoover, acoustical consultant, Cavanaugh Tocci Associates, Inc. (\$25)
3. **"Architectural Acoustics Workbook"** (1994 Grant) by Professor M. David Egan, who teaches architectural acoustics at Clemson University. (Available in 2000)
4. **"Acoustical History of Theaters and Concert Halls"** (1996 Grant) Book, slides and audiotape, by Gary W. Siebein, Director, Architecture Technology Research Center, University of Florida. (Available in 2000.)
5. **"Sound System Design Guide"** (1997 Grant) by Neil Thomson Shade, President, Acoustical Design Collaborative, Ltd., Falls Church, Virginia. (Available in 2000.)

For the above items, checks for suggested amount of donation should be made payable to The Newman Student Award Fund, sent to P.O. Box 6349, Lincoln, MA 01773.

Additional Teaching Aid Available

The following new item, not developed under a Schultz Grant, was prepared by Jim Cowan, Acoustical Consultant at Acentech, Cambridge, MA.

Architectural Acoustics - CD-ROM

A two CD-ROM set, published by McGraw-Hill. A powerful learning tool developed by Acentech Inc., covering the fundamentals of architectural acoustics, including animation, audio demonstrations, and opportunities to specify and assess various design options.

For further info, contact Jim Cowan at 617-499-8075 or by e-mail at: jcowan@acentech.com.
(Available through Acentech at \$139.95.)

Robert Bradford Newman Student Award Fund

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