

# ROBERT BRADFORD NEWMAN NEWSLETTER 98

S T U D E N T A W A R D F U N D



Dean Stephen White (left) and Jeffrey L. Staats presenting medal to Eugene S. Zukowski, Jr.

## Seven Medals Awarded to Students During 1998

In 1998, the thirteenth year of the Robert Bradford Newman Student Award Medal Program, the following students were selected to receive the medal "For Merit in Architectural Acoustics":

### **Louisa Caldas**

Massachusetts Institute of Technology  
Reverberation Time Optimization Tool

### **Max Chen**

Massachusetts Institute of Technology  
A Module for Calculating Noise  
Reduction Between Adjacent Rooms

### **Alton P. Chow**

Syracuse University  
An Urban Gesture: Defining an Identity -  
A Musical Performing Arts Center  
for the City of Taipei

### **Elizabeth Lee**

The University of Auckland  
Effects of Surface Textures of Choral  
Reflectors

### **Jason Pearson**

Princeton University  
Open Plan Office Acoustics: An  
Analysis of Theory

### **Joseph B. Walker**

University of Florida  
Sound Diffusion and the Acoustic  
Environment

### **Eugene S. Zukowski, Jr.**

Roger Williams University  
Reading Room in New Building for  
Newport Historical Society

## 1999 Acoustics Student Workshop at Tanglewood

On 29 August to 1 September 1999 a newly established Concert Hall Acoustics Summer Institute will present a Summer Student Workshop at Tanglewood, the Boston Symphony Orchestra's summer home, in Lenox, MA.

This unique educational program will be sponsored by the Newman Student Award Fund, along with a consortium of acoustical consultants and research organizations, known as the Concert Hall Research Group (CHRG), interested in encouraging a better understanding of the acoustics of music performance spaces. Sponsors include the Technical Committee of the ASA and the NCAC.

By presenting this summer program at Tanglewood, participants will have the unique opportunity to attend various concerts and to perform listening observations and acoustical measurements at the Serge Koussevitzky Concert Shed, the Seiji Ozawa Concert Hall, and other buildings within this campus setting, under the guidance of leading concert hall designers and acoustical research engineers.

The purpose of this program is to bring students and recent graduates together with distinguished lecturers and discussion leaders in an appropriate setting, allowing participants to review and experience a wide range of facets of concert hall acoustics. The focus will be on advanced students, academic participants, practicing consultants, as well as researchers in the field of music facilities.

It is planned that five or more students will receive full-charge funded fellowships to attend the 1999 CHRG Summer Institute. Additional students, discussion leaders and other participants will be selected from applicants for a total of 30 attendees.

Applications must be submitted by 30 April 1999. Application forms and other information will be available from:

1999 Summer Institute Organizing Committee, 327F Boston Post Road, Sudbury, MA 01776, Attn. Timothy J. Foulkes, Tel. 978-443-7871, Fax 978-443-7873, or e-mail: tfoulkes@cavtocchi.com

## Newman Fund Supports 1998 ASA/NCAC Design Competition

For the third time since 1994, the Newman Fund helped to support a Student Design Competition as a part of the meeting of the Acoustical Society of America, most recently held in June 1998 in Seattle, WA. These student design competitions were initiated in 1994 at the ASA Sabine Centennial Symposium held at MIT.

The competition design in 1998 called for a small opera performance and rehearsal facility which was to include detailed acoustical design input.

The judging panel awarded First Honors to the team of Pamala Aytar and Davis Flock from the University of Kansas. Four other entries received Commendations Awards.

Judges for the competition included: **Jacob Friesen**, Jacob L. Friesen & Associates, Consultants in Acoustics, Atlanta, GA; **Peder Knudsen**, Knudsen-Benson, Theatrical Consultants, Seattle, WA; **Chris Jaffe**, Jaffe Holden Scarborough Acoustics, Norwalk, CT; **Red Wetherill**, Paoletti Associates, Acoustical Consultants, San Francisco, CA; **Roy Richards**, Burck Richards Chaudiere, Acoustical Consultants, Seattle, WA; **Brat Wiggins**, Callison Architecture, Seattle, WA; **Elizabeth English**, Professor of Architecture, University of Michigan.

The next ASA Student Design Competition is scheduled for the 137th ASA meeting in Berlin, Germany, in March 1999. Entry deadline is 10 March 1999. Entry packets are available from: Robert C. Cofeen, Tel/fax: 913-648-8780 email: rcofeen@falcon.cc.ukans.edu

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## Two New Books on Architectural Acoustics

Two new books on architectural acoustics have been published in 1998. Both authors were Bob Newman's colleagues, working at BBN Inc. during the 1960s. The books are:

**ACOUSTICS Architecture-Engineering-the Environment** by Charles M. Salter, of Charles M. Salter Associates, Inc., published by William Stout Publishers, San Francisco.

This elegantly illustrated text, with chapters contributed by staff members of Charles M. Salter Associates, Inc., provides a practical, step by step examination of the acoustical design and planning process, with ample reference information on the acoustical performance of building materials, processes and systems, including audio/visual systems.

Over 300 full color illustrations, graphs, and charts help to guide the reader through a myriad of architectural acoustics applications in a highly interesting way. Charles Salter confides that he had in mind a "coffee table book", from the outset, rather than having the usual musty textbook—and most who have seen the book agree with this decision.

The first chapter, focusing on the history of acoustics, with its unique time line of significant events in the history of acoustics, draws the reader in immediately. The twenty subsequent chapters cover all aspects of building acoustics, from basic fundamentals to legal issues, maintaining even the casual reader's interest while also rewarding the serious reader looking for useful hard information.

### Architectural Acoustics - Principles and Practice

Edited by William J. Cavanaugh and Joseph A. Wilkes, published by John Wiley and Company, New York City.

This comprehensive and up-to-date text contains six chapters: 1. Introduction to Architectural Acoustics and Basic Principles - by W. J. Cavanaugh; 2. Acoustical Materials and Methods - by Rein Pirn; 3. Building Noise Control Applications - by G.C. Tocci; 4. Acoustical Design: Places for Listening - by G.L. Marshall and D.L. Klepper; 5. Sound Reinforcement

Systems - by J.J. Figwer; and 6. Recent Innovations in Acoustical Design and Research - by G. Siebein and B. Kinzey.

According to Cavanaugh, the editor, the idea for this book grew out of the chapters on acoustics which he and his several co-authors had earlier contributed to the "Encyclopedia of Architecture", published by John Wiley & Co. in 1988, edited by Joseph Wickes. In 1990, Cavanaugh initially thought it would be good to update his text on architectural acoustics and to develop this into a separate book which would be richly illustrated with new case study applications. Co-editor Wickes and the publishers readily agreed, but getting the updated material from always-busy consultants was no easy chore.

After a do-or-die ultimatum from Wiley & Co., work on the book resumed in earnest in late 1997. The presses rolled in October 1998 and the book was published in November. Cavanaugh estimates that, among them, the co-authors' and editor's contributions represent almost 300 years of consulting experience.

The book is dedicated to Richard H. Bolt, Leo L. Beranek, and the late Robert B. Newman, founders of the pioneering acoustics consulting firm of Bolt Beranek and Newman, Inc.

Ordering information for these two books is available from: Charles M. Salter, Tel. 415-397-0442, Fax. 415-397-0454, and William J. Cavanaugh, Tel. 978-443-7871, Fax. 978-443-7873.

## Robert Bradford Newman Student Award Fund

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