

ROBERT BRADFORD NEWSLETTER 05 NEWMAN

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

FUND'S 2005 YEAR AT A GLANCE

December 31st, 2005, completed another successful year for the Newman Fund. It's hard to believe that 22 years have passed since a group of the late Professor Bob Newman's friends and colleagues initiated the Fund to promote the teaching of courses and rewarding students and teachers who have demonstrated meritorious work in the ever challenging field of architectural acoustics. In 2005 Newman Medals were awarded to 12 students bringing the total to 175 medals awarded at over 40 schools of architecture, engineering and music throughout the world.

With completion of the work of two 2003 Schultz Grantees, there are now nine "Schultz scholars" who have contributed valuable research and tools for improved teaching in architectural acoustics. A call for applications for the 2006 Schultz Grant has been issued and is expected to be awarded in early 2007. Also five student teams received Harry Wenger Prizes in 2005 for their meritorious design work juried and displayed at the ASA Student Design Competition held in the Spring in Vancouver, British Columbia.

In May 2005 the Fund along with ASA's Greater Boston Chapter hosted "A Celebration of the Life of Jack Curtis." Nearly a hundred of Jack's friends, colleagues, former teachers, and neighbors gathered at the Newman residence in Lincoln, MA and enjoyed an afternoon of music, conversation and remembrance of Jack's lifetime achievement in architecture and acoustics and in improving our environment visually, architecturally and acoustically. Jack was a founding member of the Newman Fund Advisory Committee and continued to serve the Fund until his untimely death at his home in Sandwich on Cape Cod (reported in the 2004 issue of the Newsletter).

In all, 2005 has been another banner year for the Fund. The appreciation of the Advisory Committee is extended to students, teachers, consultants and other professionals and supporters whose extraordinary voluntary efforts make this possible and thoroughly enjoyable. Particular thanks are extended to Elaine Moran and her office staff at ASA in Melville, NY who help the Fund's operation run so seamlessly. Thank you one and all.

*Mary Shaw Newman
Carl Rosenberg
Bill Cavanaugh*

TWELVE NEWMAN MEDALS AWARDED IN 2005



During 2005 twelve students were awarded Newman Medals. Two of these were for studies completed in 2004 but the medal presentations were delayed until 2005. The medalists, their schools and their research theses or senior projects follow:

BUM JUN KIM (2004)

University of Florida
"Speech Intelligibility Tests With Real and Simulated Classroom Noise Sources"
[Doctoral Dissertation]

RYAN D. MARTIN (2004)

University of Texas at Arlington
"Open Plan Office Acoustics Studies at HKS Inc."

DANIEL J. BUTKO (2005)

University of Florida
"Communion of Light, Sound and Water: Natural Elements in the Design of Evangelical Architecture."
[M. Arch. Thesis]

TROY ALAN FOSLER (2005)

University of Nebraska at Lincoln
"Theater Design in a Downtown Development Project"

PAUL HENDERSON (2005)

Rensselaer Polytechnic Institute
"Wave Field Synthesis for Perceptually Accurate Telepresence"
[M. Arch. Thesis]

REBECCA HUGHES (2005)

Virginia Technological Institute
"The Design of a School for the Performance of Appalachian Music"
[M. Arch. Thesis]

COURTNEY MCGINNES (2005)

Rensselaer Polytechnic Institute
"An Environmental and Economical Solution to Sound Absorption Using Straw"
[M. Arch. Thesis]

DAN MENNITT (2005)

Virginia Technological Institute
"Measuring and Mapping the Sound Field of a 400 Seat Theater at 'One-Seat' Resolution"
[M. Engineering Thesis]

MARTA MORAIS (2005)

Massachusetts Institute of Technology
"Quantitative vs. Digital Acoustical Analysis of the Muddy Charles Pub"

MOLLY K. NORRIS (2005)

Rensselaer Polytechnic Institute
"Aurally Adequate Time-Frequency Analysis for Scattered Sound Fields in Performing Arts Spaces"

LAUREN RONSSE (2005)

University of Kansas
"Research on 'Rock Art Acoustics' in Ellsworth County Kansas"
[paper presented at 148th ASA, San Diego]

ELIZABETH VALMONT (2005)

University of Southern California
"Tunable Acoustics in Performance Spaces: The Architecture of Acoustics"
[M. Arch. Thesis]

SPOTLIGHT BIOGRAPHY GARY SIEBEIN



Gary Siebein, a founding member of the Newman Fund Advisory Committee, received his BS and B. Arch. at the Rensselaer Polytechnic Institute. A master's thesis on acoustical modeling under Professor Bertram Kinzey led to his M. Arch. degree from the University of Florida, and to his immediately joining the University faculty. In 1985, he founded and assumed directorship of the Architecture Technology Research Center at the University.

He continues to wear three "hats" as a teacher in the Department of Architecture, a director of research programs in the Department of Architecture and at the Architecture Technology Research Center, and as an acoustical consultant. Since 1981 he has headed his own independent consulting firm, Siebein Associates Inc. in Gainesville, Florida. He is a Registered Architect in the state of Florida, a Fellow of the Acoustical Society of America, a member of the National Council of Acoustical Consultants, and is a Board Certified Member of the Institute of Noise Control Engineering.

Gary has directed major research and consulting efforts over the years which has led to his pre-eminence as one of the leading researchers in architectural acoustics who is highly regarded by his professional colleagues. Under Gary's steady guidance the University of Florida has produced twenty-two Newman Medalists for merit in the study of architectural acoustics. The Fund has asked Gary to reflect on the impact the Newman Student Award program has had at the University of Florida.

20 YEARS OF NEWMAN MEDALISTS AT UFL

by Prof. Gary Siebein, UFL
e-mail: gsiebein@siebeinacoustic.com

2006 marks the 20th year that the Robert Newman Student Medals will have been awarded at the University of Florida. Through 2005, 22 medals have been earned by students and each of the medalists have taken advanced course work in architectural acoustics leading to masters theses or, in several cases, doctoral dissertations in acoustics. There is a unique story associated with each of these students that can only be hinted at in this short report. However, the combined momentum of this remarkable group of students has helped build a program at our school which has a widely recognized tradition of excellence and innovation in architectural acoustics. I believe that it is the legacy these students have given to our school. They and their fellow students richly deserve all of the credit and recognition they have earned for their efforts. Furthermore, the motivation and challenge offered by the Newman Medal Program has contributed enormously to the success and enrichment of our teaching programs in architecture at the University of Florida.

The medal program is often the only form of recognition available to a student who elects to step apart from his or her peers in the normally heavily design studio-oriented architecture program at UFL. Students who move their focus to the Acoustics Lab, even those with high grade point averages and levels of accomplishment, may actually lessen their opportunities for other more numerous awards at graduation. The Newman Medal recognition as well as the annual Fund Newsletters and the general support from acoustical consulting firms through summer internships, including opportunities to attend, and occasionally present papers at professional society meetings and the like, have created a strong, close-knit community of architectural students devoted to integrating good acoustical design in architecture and a life-long interest in research and practical applications in architectural acoustics.

In almost every one of the past 20 years I could have nominated as many as five students for Newman Medals because of the number of extremely talented and capable students in our program. I can only remind these students that, except in rare circumstances, only a single Newman Medal at each school may be awarded in a given year. It should be evident from the summary table below that many of our past Newman Medalists from UFL are making significant

contributions to architecture, to acoustical consulting and research, as well as to education in architectural acoustics throughout the world. Also evident from the table, may be the three general career paths the medalists from our school elect to follow after graduation. First are those who enter the architectural profession with full recognition of the importance of acoustics in architectural design and pass this on to professional colleagues. Second are those who work with acoustical consulting firms or the acoustical industry bringing a high level of knowledge and experience gained in our program to the field. Finally, a third group chooses to enter the academic world to teach in architectural schools including courses in architectural acoustics. In all, the Newman Student Award programs have meant a great deal to the UFL Department of Architecture and the Architecture Research Center and, more importantly, to our students themselves. We look forward to many more Newman Medalists in the decades ahead.

TABLE 1

NEWMAN MEDALISTS FROM UFL 1986 to 2005

CHANDLER E. ROZEAR (1986)

Mr. Rozear is now Director of Facilities Planning at UFL where he oversees the work of architects, engineers and consultants on all campus buildings, new and renovations, including academic classrooms, lecture and conference facilities, science and research buildings, performing arts buildings, sports facilities etc.

EDWARD G. CLAUTICE (1987)

Mr. Clautice is an acoustical consultant with a consulting firm in Washington, DC. He previously worked for many years with a firm in Atlanta.

MARK E. HOLLOWAY (1988)

Mr. Holloway is a practicing architect in Jacksonville, FL specializing in religious and performing arts buildings.

DAVID F. EPLEE (1989)

Mr. Eplee had a short but noteworthy professional career as an acoustical consultant with a prominent consulting firm in Chicago until his untimely death in 1994. His Newman Medal meant a great deal to him and he left a bequest to the Newman Fund in his will to continue the Fund's work.

MITCH SPOLAN (1990)

Mr. Spolan worked for TVS Architects following graduation from UFL designing performing arts spaces and now works for the Yahoo organization.

RICHARD P. CERVONE (1990)

Mr. Cervone worked in acoustics at ARTEC Consultants in New York City for several years following graduation then enrolled at Columbia for graduate study in business. After earning a MBA he now has a professional career in business.

WEI-HWA CHAING (1991)

Mr. Chaing directs the acoustics program at the Technical University in Taipei, Taiwan.

SHIRLEY MAE JIN (1992)

Ms Jin is a practicing acoustical consultant in Melbourne, Florida.

MARTIN A. GOLD (1993)

Martin Gold is an Associate Professor of Architecture at the University of Florida where he teaches courses in architectural design, in acoustics, and in sustainable design. He works to integrate an understanding of acoustics, technology and design principles in the work of his students.

ANTONIO P. O. CARVALHO (1994)

Mr. Carvalho directs an academic program and acoustical laboratory at the University of Porto in Portugal. He is a recognized authority on the acoustics of buildings of various uses including churches throughout Portugal and has widely published the results of his studies.

JOHN SCOTT KIDWELL (1995)

Mr. Kidwell is a practicing architect with Holmes Hepner Architects in Tampa, Florida where he has designed numerous award winning schools and performing arts buildings.

ROBERT M. LILKENDEY (1996)

Mr. Lilkendey is a Senior consultant with acoustical consultants Siebein Associates in Gainesville, Florida. He previously worked with Jaffe Holden Acoustics in Norwalk, Connecticut. His work includes building and room acoustics design, HVAC system noise and vibration control and exterior environmental control issues. He is a voting member of the ASHRAE Technical Committee 2.6 on Noise and Vibration Control.

DAVID PRINCE (1997)

Mr. Prince is an independent consultant in private practice in Illinois.

GANAPATHY MAHALINGHAM (1998)

Mr. Mahalingham is a Professor of Architecture at North Dakota State University where he teaches acoustics, environmental technologies, computer aided design, and architectural design. He is developing computer-based design tools for architects for room acoustics design applications.

PATTRA SMITTHAKORN (1999)

Ms. Smitthakorn teaches undergraduate courses in acoustics at the University of Florida and is completing her doctoral dissertation on the architecture of diffusion. Following receipt of her Ph. D., anticipated in the spring of 2006, she plans to teach architectural design and acoustics at a university in Thailand.

CHRISTOPHER R. HERR (1999)

Mr. Herr has his own architectural practice in Colorado. He continues to develop an integrated theory of acoustics, technology, and architecture through a series of projects with his partner Brad Tomeczek. One of their residential designs was recently featured on a nationally televised series.

MICHAEL ERMANN (2000)

Mr. Ermann is an Assistant Professor of Architecture at Virginia Polytechnic Institute where he teaches acoustics, environmental technologies, architectural design and directs the acoustics research laboratory. His current research is in acoustical modeling of coupled rooms. He worked in acoustics at ARTEC Consultants in New York City prior to joining the faculty at Virginia Tech.

E. STEPHEN SKORSKI (2001)

Mr. Skorski is a Consultant at Siebein Associates in Gainesville, Florida, working on room acoustics design, environmental noise and acoustical measurement assignments. He previously worked in acoustics at ARTEC Consultants in New York City.

MITCHEL L. LEHDE (2002)

Mr. Lehde has worked with architectural firms in Naples, Florida principally on worship spaces and educational facilities.

HYEONG-SEOK KIM (2003)

Mr. Kim is working with a contracting firm in Los Angeles, California.

BUM JUN KIM (2004)

Mr. Kim is working with an engineering firm in Los Angeles, California.

DAN BUTKO (2005)

Mr. Butko works as an architect with DLR Architects.

Total Medals Awarded at UFL '86 to '05 : 22

In addition, three of our graduate students at the University of Florida who had received Newman Medals at other schools are worth noting:

GARY S. MADARAS

(Newman Medal, Kent State University, 1991)

Gary received his Ph. D. in 1996. His dissertation was on measurement methods for interaural cross correlation (IACC) in full size rooms and in scale models. After graduation Gary worked with two prestigious acoustical consulting firms in Connecticut and in Illinois while pursuing graduate studies leading to a Masters degree in business administration. Gary is now an international sales manager for RPG Inc., where he also directs research and application design studies on architectural products for optimal sound diffusion, reflection and absorption from room surfaces.

CARLOS JIMANEZ DIANDERAS

(Newman Medal, University of Lima, Peru, 1991)

Carlos received his M.S. in Architectural Studies. His thesis involved the completion of the acoustical design of a new auditorium in Lima, Peru. This involved construction of a large scale model of the auditorium and acoustical measurements in the model to confirm the validity of final architectural designs. He is currently a Professor of Architecture in Lima and also maintains an acoustical consulting practice. He is also active in developing a professional acoustical society in Peru and in arranging cooperative technical meetings with other professional groups throughout Latin America.

YOUNG-MIA KWON

(Newman Medal, RPI, 2002)

Young-mia is teaching undergraduate Environmental Technology classes at UFL and completing his dissertation on under balcony acoustics and performance halls.



UFL students working on acoustical scale model experiments for a study of San Francisco's Davies Symphony Hall.



Prof. Siebein and UFL student constructing model of an outdoor firing range for experiments to determine the effectiveness of sound absorbing treatment on roof surfaces.



UFL student Robert Likendey setting up instrumentation for acoustical scale model tests in an auditorium.

TWO 2003 SHULTZ GRANT PROJECTS COMPLETED

The two 2003 Schultz Grant recipients completed their work during 2005. Their work products are now available:

JIAN KANG of the School of Architecture at the University of Sheffield (UK), prepared a number of computer tools for architectural acoustics education applications. There are five simple calculation tools to aid in a student's understanding of basic principles and application methods:

1. sound reduction by noise shielding barriers outdoors.
2. sound distribution in a rectangular urban street
3. sound absorption by micro-perforated panels/membranes
4. reverberation in an enclosed rectangular room
5. acoustic animation in urban streets and squares

The five tools are accessible through the following website: <http://www.shef.ac.uk/acoustics>, then access the link: "ASA Project: computer tools for Architectural Acoustics Education."

JAMES COWAN of the Boston Architectural Center developed a web based outline for a basic course in architectural acoustics which can be viewed at: <http://blackboard.the-bac.edu> (the username is "acoustics" and the password is also "acoustics.") The on-line version of the course is the version that the students would see after the instructor version has been edited. (To attain instructor status, the instructor must contact Jim Cowan directly by telephone at: 617-499-8075 or by e-mail at: jcowan@acentech.com. The user of the outline can then develop a complete course, tailored to his or her particular needs. Mr. Cowan's format provides a framework for the full course development.

CALL FOR 2007 SCHULTZ GRANT APPLICATIONS

Applications for the tenth Schultz Grant, to be awarded in early 2007, are due by December 31st, 2006. Applications should be mailed to the Newman Fund address below, Attn: Schultz Grant (applications sent by e-mail to asa@aip.org must be followed by a hard copy by postal mail).

Applications for study proposals must include:

1. a brief description of the project for which the grant support is being sought
2. a description of the expected work product
3. a curriculum vitae of the principal investigator
4. a budget expense outline for the overall project

Questions may be addressed to Carl Rosenberg at: crosenberg@acentech.com

2005 STUDENT DESIGN COMPETITION RESULTS

The 2005 Student Design Competition sponsored by ASA's Technical Committee on Architectural Acoustics (TCAA), with support from the National Council of Acoustical Consultants (NCAC) and the Newman Student Award Fund, was judged at the 149th ASA Meeting in Vancouver, BC in May 2005. The competition included posters from student teams at nine universities.

A distinguished panel of acoustical consultants, architects and educators awarded one First Honor [\$1,250 Wenger Prize] and four Commendations [\$700 Wenger Prizes]:

FIRST HONOR [\$1,250 Wenger Prize]

LAUREN RONSSE and ANDY MILLER

University of Kansas

Faculty Advisor:

Prof. Robert Coffeen

COMMENDATIONS [Four \$700 Wenger Prizes]

MARK WILCOX and DOUG WILCOX

University of Hartford

Faculty Advisor:

Prof. Robert Celmer

SHAWN HENRY and MATT GRONNIGER

University of Kansas

Faculty Advisor:

Prof. Robert Coffeen

COURTNEY MCGINNES, DAVID SO

and KEN ANDREA

Rensselaer Polytechnic Institute

Faculty Advisors:

Profs. Mendel Kleiner and Ning Xiang

ANA JARAMILLO, NOZONU KAMIYA

and BOBBY GIBBS

Rensselaer Polytechnic Institute

Faculty Advisors:

Profs. Mendel Kleiner and Ning Xiang

Complete details of the Vancouver Competition may be viewed at the Newman Fund website: www.newmanfund.org including photos of the winning project posters, student team names and university affiliations and the members of the jury panel.

2006 STUDENT DESIGN COMPETITION SET FOR PROVIDENCE ASA MEETING IN JUNE

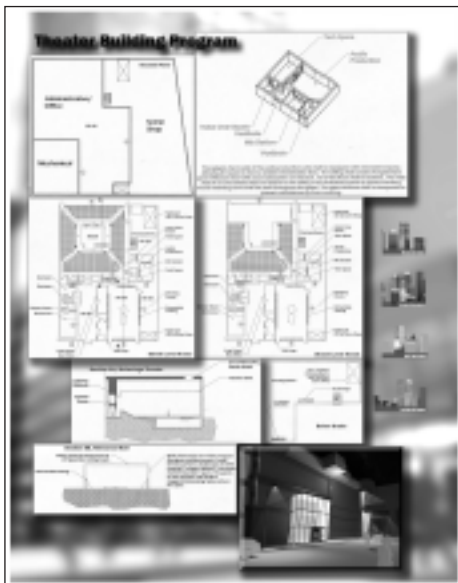
The 151st ASA Meeting in Providence, RI, June 5 - 9, 2006, will host the sixth consecutive annual student design competition. The design problem is a municipal court building with a large courtroom, large community auditorium and ancillary spaces which will challenge the students' design skills in room acoustics design as well as their abilities to assure quiet environments free from excessive exterior noise, noise from adjacent activities and from building mechanical systems. Through the continuing generosity of the Wenger Foundation there will be one First Honor Wenger Prize (\$1,250) and four Commendation Wenger Prizes (\$700 each) awarded to outstanding student design team posters selected by a jury of distinguished professionals from submissions expected from more than a dozen architectural schools.

ANNUAL BENEFIT CONCERT SCHEDULED FOR MAY 15, 2006

The annual Newman Fund benefit concert will be held at the Newman residence in Lincoln, MA on Monday evening, May 15, 2006. Luis Leguia, Cellist of the Boston Symphony Orchestra who performed at the very first benefit concert in the mid 1980s, along with his accompanist, pianist Carmen Rodriquez, will perform. As always all friends of the Fund from near and far are cordially invited. Further details and directions will be posted on the Fund website [www.newmanfund.org] and included on an invitation note from the ASA Greater Boston Chapter.



Michael Yantis, one of the judging panelists at the Vancouver, BC Student Design Competition, is shown rating one of the student team's entry poster display.



One of three poster panels from the FIRST HONOR winning team at the Vancouver, BC Student Design Competition (Lauren Ronsse and Andy Miller of the University of Kansas).

ROBERT BRADFORD NEWMAN STUDENT AWARD FUND

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J. Christopher Jaffe

Gary W. Siebein

Ewart A. Wetherill

* Past Newman Medalists

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Massachusetts Institute of Technology,

School of Architecture and Planning

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