

Applications of Acoustic Radiation Force (Mostafa Fatemi). Charles Church was the TPOM representative.

Special sessions (and organizers) at the Paris meeting included: High-intensity focused ultrasound (Lawrence Crum and Jean-Yves Chapelon), High-intensity focused ultrasound metrology and standards (Peter Kaczowski and Gail ter Haar), Shock waves in medicine (Robin Cleveland and Oleg Sapozhnikov), Theoretical and computational models of ultrasonic propagation in bone (James Miller and Pascal Laugier), Ultrasonic characterization of bone (Keith Wear and Frédéric Padilla), Quantitative ultrasound methods for diagnosis and therapy (Jonathan Mamou and Geneviève Berger), Light and sound in medical imaging and therapy (Ronald Roy and Emmanuel Bossy), Transducers for medical imaging and therapy (Jeffrey Ketterling and Marc Lethiecq), Ultrasound contrast agents for therapy (Tyronne Porter and Eleanor Stride), and Biomedical Applications of Acoustic Radiation Force (Mostafa Fatemi and Mathias Fink). There was a special session Biomedical Applications of Time Reversal (Oleg Sapozhnikov and Mickael Tanter) that was part of a Topical Meeting on Time Reversal, a special session co-sponsored with PA Acoustically Activated Bubble Dynamics and Applications (Carr Everbach and Joachim Holzfuss), and a contributed session (Michael Bailey and Oleg Sapozhnikov). Neil Owen and Emmanuel Bossy were the TPOM representative who were able to fit all these sessions into the busy week.

Several members of the BBTC received awards and recognition. Tyronne Porter received the R. Bruce Lindsay Award “for contributions to ultrasound-guided drug delivery.” Vera A. Khokhlova and Glynn Holt were named Fellows of the ASA. David Blackstock was awarded the Rossing Prize in Acoustics Education. Student Paper Award winners were Moire Smith of Cambridge University for “Effect of HIFU on pH responsive PE-Gylated Micelles,” Todd Hay of The University of Texas for “Ultrasound Frequency response of bubble pulsations in tubes with arbitrary wall impedance,” and Dorothee Bossis of Université Pierre et Marie Curie for “1 kHz sound stimulates nitric oxide and prostaglandin E2 production by rat mesenchymal stem cells.”

A number of people should be acknowledged for their work for the BBTC and new volunteers are introduced. The associate editors for BB are Charles Church, Floyd Dunn, and Douglas Miller. Shira Broschat continues to maintain the BBTC website (<http://moab.eecs.wsu.edu/~shira/asa/bubv.html>). Lawrence Crum is the representative to the Medals and Awards Committee. Christy Holland replaces Carr Everbach as BB representative on the Membership Committee and Peter Kaczowski replaces Carr Everbach on ASACOS. Paul Barbone has served as the ASA representative to the Biomedical Imaging Research Opportunities Workshop (BIROW) and will be replaced by Subha Maruvada. Michael Canney of the University of Washington became the Chair of the Student Council. Lucie Somaglino of INSERM U556 and University Claude Bernard, Lyon, France is the BBTC representative to the Student Council. Jeffrey Ketterling has been elected Chair of the BBTC.

Michael Bailey
Chair (2006-2008)

Physical Acoustics

It has been an honor for me to be your Chair and a pleasure to have the opportunity to reflect back on the past year's activities in which Physical Acoustics has been involved. It is the talent, dedication and professionalism of PA committee members (working together with ASA members across the board) on the long range planning that goes into forming the ASA activities and special sessions that blossom at future ASA meetings.

It was an exciting and productive year for the Physical Acoustics Technical Committee of the ASA. The tremendous success of the 154th Meeting (held in New Orleans from 27 Nov.–1 Dec. 2007) and the 155th Meeting, Acoustics' 08, Paris (held at the Palais des Congrès from 29 June–4 July 2008) speak volumes for your commitment to the Society.

The planning for New Orleans developed during the Hawaii and Salt Lake City Meetings. Two special sessions were organized for New Orleans: (a) Acoustic applications for hurricane and storm preparedness was organized by Jim Sabatier, Ken Gilbert and Roger Waxler. (Preston Wilson chaired the session); (b) Ultrasonic measurements and methods for condensed matter was organized by Albert Migliori and Veerle Keppens (who also served as chair).

Jim Chambers and Jim Sabatier volunteered to be the PA TPOM representatives (10–11 Aug. 2007). Contributed papers were organized into five sessions (with the chairs mentioned in parentheses): (c) General physical acoustics (Joel Mobley), (d) Bubbles and cavitation (Ron Roy), (e) Thermoacoustics (William Slaton), (f) Acoustics of soil and porous media (Wheeler Howard and Alexander Ekimov), and (g) Atmospheric acoustics (D. Keith Wilson). Thanks to Jim Chambers and Jim Sabatier for all their help.

A special thanks goes to Alfred J. Bedard, who gave an excellent Tutorial Lecture entitled, “Tutorial lecture on weather and acoustics.” (Jim Chambers chaired this session along with Hot Topics in Acoustics.) One of our PATC members, William M. Carey, received the 2007 ASA Pioneers of Underwater Acoustics Medal. Congratulations Bill! David Blackstock received the Rossing Prize in Acoustics Education and gave a very insightful lecture, “Songs my students sang to me,” which was a wonderful tribute to his students. Congratulations David! (Mark Hamilton as chair introduced his lecture.) Here we mention that Dimitri M. Donskoy and R. Glynn Holt became our newest Fellows in the Society. Congratulations to Dimitri and Glynn!

All said, the New Orleans Meeting was a big success for PA.

It is important to mention the launching of POMA, the Society's new online open access journal, “Proceedings of Meetings on Acoustics,” which began to receive submissions on Nov. 2, 2007. Vol. 1 starts with Salt Lake City and Vol. 2 goes with the New Orleans Meeting, etc. (The general idea was conceived by the Executive Director, Charles Schmid. Anthony Atchley (the current ASA President at the time) and Allan Pierce (Editor-in-Chief) announced the details of POMA to the PATC at the Salt Lake City Meeting. Tom Matula and Murray Korman were appointed by committee to be the first PA and ED Associate Editors of POMA, respectively.

The brainstorming of special sessions in PA for the Acoustics' 08, Paris Meeting originated around the time of the Hawaii meeting. By the end of the Salt Lake Meeting the original eight special sessions had expanded to eighteen. Organizers had a narrow window until 30 June 2007 to submit various detailed information (including the European co-organizer) prior to the call for papers. Acoustics' 08 combined the 155th Meeting of the ASA, 5th Forum Acusticum of the EAA, 9^e Congrès Française D'acoustique of the SFA and the 2nd ASA-EAA Joint Conference; integrating the 7th European Conference on Noise Control (eurnoise), the 9th European Conference on Underwater Acoustics (ecua) and the 60th Anniversary of the SFA.

Key organizers from France who worked very closely with the PA Chair in planning special PA sessions (and who were present at the Hawaii, Salt Lake City and New Orleans meetings) were Manell Zakharia (SFA) co-chair of the Meeting Organizing Committee and Philippe Blanc-Benon (SFA) co-chair of the Technical Organizing Committee. Your Chair also worked closely with Didier Cassereau (SFA), the Information Systems Manager who helped design the web software from which the meeting was planned electronically. The PATC Chair and Walter Lauriks (EAA) were the PA Technical Program co-chairs. The Chair wishes to recognize the help he received from William Hartmann, co-chair of the Technical Organizing Committee, Elaine Moran and Charles Schmid during planning Acoustics' 08 at the Technical Council Meetings. PA also had representation from Kenneth Foote (ECUA Committee), Michael Stinson and Keith Attenborough (Eurnoise Committee) and Yves Berthelot (Technical Program Organizing Committee). Peter Rogers volunteered to be our PA TPOM rep. (14–16 Feb. 2008) and worked with Walter Lauriks (EAA) to help organize the meeting in Paris. Prior to the TPOM, Jim Sabatier helped the PATC Chair read and sort all the contributed paper abstracts and grouped them into sessions with titles (a two day effort.) Walter Lauriks also played a key role in supplementing this effort.

PA had planned eighteen special (“structured”) sessions in Paris. They are listed below with the ASA and European co-organizers/co-chairs in parenthesis: (1) Acoustic landmine detection—joint with SP, (James Sabatier & Keith Attenborough), (2) Acoustic probes of planetary environments, (Andi Petculescu & Martin Towner), (3) Acoustically activated bubble dynamics and applications—joint with AO, BB, (Carr Everbach & Joachim Holzfuss), (4) Ultrasonics under extreme conditions, (Albert Migliori & Frederic Decremps) (5) Infrasound, (Henry Bass & Alexis Le Pichon), (6) Sonic, ultrasonic, and megasonic cleaning, (Ralph Muehleisen & Claus-Dieter Ohl), (7) Nonlinear acoustics of unconsolidated granular media, (Paul Johnson & Vitaliy Gusev), (8) Nonlinear acoustics of consolidated materials and non destructive testing, (James TenCate & Koen Van Den Abele), (9)

Time reversal acoustics for nonlinear imaging, (Alexander Sutin & Serge Dos Santos), (10) Nonlinear acoustics in earthquake processes and other earth processes, (Paul Johnson & Fabrice Cotton), (11) Outdoor sound propagation and uncertainties, (Keith Wilson & Michel Bérengier), (12) Phononic crystals, (Pierre Deymier & Jérôme Vasseur), (13) Photoacoustics, (Gerald Diebold & Christ Glorieux), (14) Acoustics of porous media, (Walter Lauriks & Keith Attenborough), (15) Thermoacoustics, (Steven Garrett & Philippe Blanc-Benon), (16) Ultrafast acoustics, (David Hurley & Clément Rossignol), (17) Diffraction of waves on periodical structures: Acoustic, ultrasonic and acousto-optical diffraction phenomena, (Nico Declercq & Nataliya Polikarpova), and (18) Combustion noise and thermoacoustics, (Tim Lieuwen, Maria Heckl & Rafael Piscoya).

The response to the call for papers (in PA) for Acoustics' 08 was very strong in regard to contributed ("unstructured") sessions. These papers were placed in the sessions that are listed below along with the co-chairs which volunteered their services: (The symbol p in brackets means poster session.)

(1) Diffraction of waves on periodic structures: Acoustical, ultrasonic, and acousto-optic diffraction phenomenon I, II [p], (Nico Declercq and Nataliya Polikarpova), (2) Ducts and waveguides I [p], II, (Marc Deschamps and Oliver Dazel), (3) General topics in physical acoustics I [p], II, (Walter Lauriks and Andi Petculescu), (4) General topics in nonlinear acoustics I, II [p], (Thomas Matula and Murray Korman), (5) Mathematical and numerical methods I, II [p], (Andrew Piasek and B.D. Zaitsev), (6) Quantum Acoustics I, II [p], (Michel De Billy and Walter Lauriks), (7) Scattering and diffraction I [p], II, (Michael L. Oelze and Jean-Marc Conoir), (8) Ultrasonics: Industrial NDT I, II [p], (Bertrand Nongaillard and Christophe Aristegui), (9) Ultrasonics: Material Characterization I, (Bart Lipkens and Nicolas Wilkie-Chancellor), II [p], (Jim A. Tencate and Koen Van Den Abeele), (10) Ultrasonics: NDT and layered systems I, II [p], (Vincent Pagrieux and Claire Prada), (11) Ultrasonics: Transducers and Instruments I [p], II, (Albert Migliori and Claude Boutin), and (12) Vibration in plates I, II [p], (Daniel Royer and Oliver Poncelet).

Noise, Physical Acoustics and EURONOISE co-sponsored Aeroacoustics I, II, and III and PA co-sponsored SP sessions (a) Overview of time reversal in acoustics and (b) Biomedical applications of time-reversal.

One of the highlights of the Paris Meeting was that my European PA co-organizer, Walter Lauriks (EAA) received the Foreign Medal 2007 of the French Acoustical Society. This medal is annually presented to a renowned scientist having strong relationships with French acousticians. Congratulations Walter and thank you for all your help. Tyrone M. Porter received the ASA, R. Bruce Lindsay Award 2008 for contributions to ultrasound-guided drug delivery, and Charles E. Schmid received the ASA, Distinguished Service Citation 2008. Congratulations Tyrone and Charles!

In Paris, 25 year service awards were given to Anthony A. Atchley, Kerry Commander, Nicholas P. Chotiros, Peter H. Dahl, Robert Keolian, Timothy K. Stanton and Junru Wu. Also, 50 year service awards were given to William J. Cavanaugh, Clarence S. Clay, Jr., Walter M. Madigosky, Alan Powell and Wayne M. Wright.

All said, the Paris meeting was a huge success.

It is time to acknowledge members of PA who volunteer their services on various committees: Tom Matula currently serves on the Medals and Awards Committee. Anthony Atchley, Robert Keolian and James Sabatier, all predecessors of this position remain active in helping on this Committee. Steve Garrett serves on the Membership Committee; Phil Marston serves on the Books Committee, and Richard Raspet serves on ASACOS. Todd Hay has done an outstanding job as our Student Council Rep. His term has come to an end and a subcommittee headed by David Blackstock, Anthony Atchley, Kent Gee and Todd Hay headed a selection process for the new rep. Jon R. La Follet has been selected as the next Student Council Rep. and Kenneth B. Bader will serve as the alternate. Congratulations Jon and Ken!

Your Chair has had the good fortune to serve during the presidencies of Anthony Atchley, Gilles Daigle and most recently Mark Hamilton. PA is well represented in other areas as, Vic Sparrow is our Vice President, Gilles Daigle and Wayne Wright serve on the Executive Council, and Ron Roy serves on the Technical Council. Keith Wilson is our editor of JASA-EL.

The 2008 Physical Acoustics Summer School, PASS 2008, took place from May 25–June 01, 2008, at Sunrise Springs, La Cienega, New Mexico. The program is jointly run by NCPA (George Atkins PASS 2008 Coordinator) and Penn State (Anthony Atchley), with strong ASA ties. Meetings take place every two years.

It is important to note that the ASA is a sponsor of the 18th International Symposium on Nonlinear Acoustics (ISNA) which was held in Stockholm, July 7–10, 2008. PA members lend support as Anthony. Atchley, Mack Breazeale, Larry Crum, Mark Hamilton and Paul Johnson served both on the Program Committee and the International Organizing Committee. Larry Crum and Vera Khokhlova organized a special session entitled, "Nonlinear Acoustics in Medicine." for this ISNA.

Finally, I wish to thank the Physical Acoustics community from the bottom of my heart for giving me the opportunity to serve as Chair over the past three years. It has been an honor and a privilege to serve you. It has been a humbling experience for me for you to entrust me with this duty. You are a group knitted in great friendships and I would like to thank many people for your advice and encouragement over the years. Now, I pass the crown to our new Chair, Ron Roy. Have a great time, Ron; it was a great experience for me!

Thank you, PATC members, for all your help.

MURRAY S. KORMAN
Chair 2005-2008

Structural Acoustics and Vibration

At the 153rd ASA Meeting in Salt Lake City, Utah, the Structural Acoustics and Vibration Technical Committee (SAVTC) sponsored two special sessions: 1) Launch Vehicles and Space Vehicles, organized by James Phillips; and 2) Sound Source Localization, organized by Sean Wu. The Best Student Paper Competition was conducted by James Phillips and the winners were Samuel D. M. Adams (1st Place), Richard E. Dziklinski III (2nd Place). At the SAVTC meeting, two major issues were discussed: 1) Proposed online publication of conference papers; and 2) Intra-Society Activities Committee. Allan D. Pierce gave a brief summary of the characteristics of the online publication of conference papers. Courtney Burroughs proposed the formation of the Intra-Society Activities Committee to provide a forum to exchange information on the technical and administrative activities in other professional societies involved in acoustics that may be useful to ASA. Courtney Burroughs reported that there were four nominations for Fellow from SAVTC. Student Council reported that there will be a new student chapter at the University of Hartford and a student mentoring award will be presented by the Student Council in New Orleans. Finally, revision of PACS SAVTC numbers was completed by the subcommittee chaired by Earl G. Williams and submitted to Allan D. Pierce, Editor-in-Chief of JASA.

At the 154th ASA Meeting in New Orleans, SAVTC sponsored two special sessions on: 1) Modeling of Vibration and Radiation in Complex Structures, organized by Courtney Burroughs; and 2) Ground Vibration Impact in Buildings, organized by James Phillips. James Phillips also conducted the Best Student Paper Competition and the winners were Kyungmin Baik (1st Place) and R. Benjamin Davis (2nd Place). At the SAVTC meeting, some Technical Initiatives were discussed. One of them was collection of success stories in acoustics. James Phillips has submitted a story on "A Floating Opera House for Toronto." The second issue was on POMA (Proceedings of Meetings on Acoustics). Steve Shepard reported that POMA papers should be written versions of presentations made at ASA meetings. There will be \$100 publication fees for each POMA paper. The window for submission of POMA papers is typically six months before the next ASA meeting. Allan D. Pierce discussed the opportunity to get funding from NAH to create special lectures and short courses for the Institute of Acoustics, which is mainly targeting post-doctoral fellows and young researchers in other American countries, excluding U.S. and Canada, to get them involved in research activities in acoustics.

At the 155th ASA/EAA Joint Meeting in Paris, SAVTC co-sponsored one general session and eight special sessions on: 1) General Topics in Structural Acoustics and Vibrations, organized by Wolfgang Kropp and Sean F. Wu; 2) Vibration and Radiation from Complex Structural Systems, organized by David Feit and Jean-Louis Guyader; 3) Source Characterization in Structure Borne Noise Problems, organized by Evan Davis and Charles Pezerat; 4) Acoustic Imaging in Confined Space, organized by Earl G. Williams and Alexandre Garcia; 5) Efficient Boundary Element Methods, organized by Ramani Duraiswami and Lothar Gaul; 6) Fluid-Structure Interaction, organized by Noureddine Atalla, Vicente Cutanda Henriquez, and Stefan Schneider; 7) Distributed Active Noise and Vibration Control, organized by Kenneth Cunefare and Manuel Collet; 8) Ground Vehicle Noise