



# *Acoustical Society of America*

40th Anniversary Celebration of the  
F. V. Hunt Postdoctoral Research Fellowship in Acoustics



December 6, 2017  
New Orleans, Louisiana, USA

## ASA Celebrates the 40th Anniversary of the F. V. Hunt Postdoctoral Fellowship in Acoustics

Foreword by Dr. Marcia J. Isakson, ASA President



Dear ASA Member,

Over my years in the ASA, I have met many previous Hunt Fellows. As you will see by reading their biographies in this booklet, these acousticians are some of the best scientists and engineers in the society, advancing the understanding of acoustics across the technical areas. They are also some of the most involved members of the society serving as chairs of important committees, on the Executive Council and as officers of the society. I believe Professor Hunt would be incredibly proud of his legacy.

In the last few years, the society has focused on its future through the Strategic Plan. One of the most important thrusts of the plan is to support and encourage early-career acousticians. It is not easy to get started in academia especially in the current funding environment, and the society is committed to do all it can to support our future leaders. One of the ways we will be supporting our early career members is by establishing the ASA Early Career Leadership Fellows Program. This program will financially support service and leadership activities for the recipient, and each recipient will join a pool of previous Fellows to organize early career initiatives and act as mentors.

As a member of our society, I hope you will join me in supporting these early career acousticians. Talk to these new members of our society and share your experiences. Introduce them to the senior members in your technical areas. Invite them to serve on a committee. I also hope you will consider supporting the new fundraising campaign from the Acoustical Society Foundation Board. It is my personal goal that 100% of the society supports this initiative even if it is only for \$10 or \$20. By supporting this cause, we let our younger members know that they are welcome and wanted in the ASA.

Marcia J. Isakson, Ph.D.

President  
Acoustical Society of America

## Frederick Vinton Hunt (1905-1972)

**Wayne M. Wright, Ph.D.**  
**The University of Texas at Austin**

F. V. Hunt grew up in Barnesville, Ohio, a farming community near Wheeling, West Virginia. Named after his father, a banker, he was known from a young age as Ted. He was a quick learner: he skipped one year of elementary school and then, finding the physical science studies easy, completed high school in three years. Having been mechanically inclined and interested in amateur radio, he followed his older brother into the Electrical Engineering program at Ohio State University, where he completed a five-year Arts-Engineering program with a B+ record and earned AB and BEE degrees.



In 1925 Ted enrolled in the graduate school of Harvard University. He found that his interests and skills placed him midway between engineering and physics. Earlier he had entertained the thought of becoming a theoretical physicist, but his experience as a graduate assistant showed him that was not realistic, because it called for more mathematical insight and training than he had or was likely to get. Much of his personal activity thus was centered on the development of instrumentation. His graduate study included research on room acoustics and development of electronic apparatus that made that research possible.

Although he completed doctoral dissertations in both engineering and physics, in 1934 he was officially awarded only the Ph.D. in physics. He made rapid progress through the academic ranks, and was awarded two endowed chairs: Gordon McKay Professor of Applied Physics and Rumford Professor of Physics. He thrived on the opportunity to interact in Cambridge with a broad group of creative, distinguished scientists, with whom he sharpened his incisive mind, expanded his vision, and perfected his compelling presence. Throughout his days he exhibited a remarkable gift for supervising graduate students (including teaching them how to write), a brilliant flair for practical invention and development, and a skill for scientific administration. He remained at Harvard until his retirement, a year before his death in 1972.

Professor Hunt spoke of three periods in his professional life: before 1941, when he did things himself; the war years, in which he did things through a large research organization; and after the war, when he stimulated his students to do things. Over many years he pursued the development of lightweight phonograph pickups, he wrote a textbook on electroacoustics,

and he contributed as advisor toward a classified set of Navy concerns. He supervised graduate student research in a wide range of areas, including physical acoustics, signal processing, and engineering acoustics. During World War II he organized and directed the Harvard Underwater Sound Laboratory, which was funded by the US government with the objective to improve existing apparatus (as well as conceive and design new approaches) for the detection, localization, and destruction of submarines. This involved his recruiting and guiding, while still in his 30s, a staff of several hundred, many of whom were graduate students and faculty who were hired away from engineering and physics departments across the country to assist in this war effort. A major accomplishment of this lab was the successful development of the acoustic homing torpedo. As was stated in the encomium for the ASA Pioneers of Underwater Acoustics Medal that he received in 1965, this wartime work led to his making "pioneering contributions to underwater acoustics as a scientist, innovator, teacher and administrator; and particularly [for his] unceasing efforts directed toward greater scientific understanding and more effective exploitation of sound in the sea."

A member of the Acoustical Society of America beginning in 1931, Ted Hunt served the Society as President and on its committees, helping over many years to shape the directions it has taken. He contributed through his keen wit, humor, and pithy remarks to technical sessions throughout the remainder



*Prof. Fredrick V. Hunt (seated) along with his group before a weekly staff meeting of the Acoustics Research Laboratory at Harvard, August 1960. Front row: Harry Schenck, Carl Lowenstein, Wayne Wright, Robert (Bob) Walkling, Robert (Bob) Pyle. Back row: David Blackstock, Carlton (Pete) Maley, Wilfred (Charlie) Remillard, Kirby Miller, William (Bill) Raney. Photo credit: Prof. David Blackstock.*

of his life. He died in 1972 while attending an Acoustical Society meeting in Buffalo. Ted had been active in most of the technical fields then represented by the Society, and he was highly respected in the other fields. He represented the aspirations and accomplishments of the first few decades of our existence, before specialization became so common. The Executive Council established an annual postdoctoral fellowship in his name to honor a vision; the first recipient was Steven Garrett, in 1978.

Upon the death of Ted's wife Katherine (Kay), in 1980 the Executive Council passed a resolution that included: "The Society has long been indebted to the Hunt family - to Ted for his contributions to the science and application of acoustics, to the education of acousticians and to leadership in the Society; to Kay for her support of Ted; and to all the Hunts for their magnificent financial contribution to the development of young acousticians through the Hunt Memorial Fund. Through the Fund, the name of Hunt will long remain a treasured one in the annals of the Society."

The availability of the F. V. Hunt Postdoctoral Research Fellowship to students in all technical areas of the Society is consistent with Professor Hunt's deep concerns for the entire discipline. His award of the Society's Gold Medal in 1969 was accompanied by the citation: "For his extensive contributions to the science and technology of acoustics in the fields of architecture, engineering, and signal processing; for his creative leadership in underwater sound and its application to the security of our nation; for his inspirational guidance as a teacher and his stimulating leadership as a laboratory administrator; and for his dedicated service to the Society as an author, lecturer, counselor, and officer." During the final decade of his teaching career he recognized that it was no longer possible for one person to remain up-to-date in so many technical areas, but he retained his interest in acoustics as a whole. He never lost his enthusiasm, and he remained loyal and encouraging to all those who had been privileged to be his students, post-docs, colleagues, and friends. It is fitting that this fellowship honors him and continues to bring his life to the attention of new generations of acousticians.

*About the author:* After getting a BA in Physics from Bowdoin College in Maine in 1956, I spent five years at Harvard and received the PhD in Applied Physics. My thesis research was in Physical Acoustics. I then spent the next year as a post-doc, under Professor Hunt, and as Deputy Director of the Acoustics Research Lab. I then began a career teaching undergraduate physics at Kalamazoo College in Michigan. I have had a long association with the Hunt Fellowship. For several years I chaired the Special Fellowships Committee, which handled the annual selection of the Hunt Fellow.

## F. V. Hunt Postdoctoral Fellows

Since the inception of the Hunt Fellowship, 40 fellowships have been awarded. Brief biographies of Hunt Fellows (either contributed or compiled from ASA records) are given below. Many of the recipients have contributed to ASA as productive members and office-bearers. Former Hunt fellows have also been recipients of prestigious awards from ASA.

### 1978-79: Steven L. Garrett



At the outset, 1978 - Dr. Garrett receives the first Hunt Fellowship stipend check from Tony Embleton, then ASA Vice President (left). 2017 - Now a nominally "retired" academic, Dr. Garrett is shown at one of the lab benches in his subterranean lair (right).

Dr. Garrett worked in the ultralow temperature physics group at the University of Sussex, UK. There he initiated research on counterflow in the newly-discovered superfluid phase of  $^3\text{He}$  using a Rayleigh disk. Subsequently, he spent two years as a Fellow of the Miller Institute for Basic Research in Science at UC-Berkeley. In 1982, he assumed a faculty position in the Physics Department of the Naval Postgraduate School, Monterey, California, and in 1995 became the United Technologies Corporation Professor of Acoustics in the Graduate Program in Acoustics at the Pennsylvania State University. After completing his acoustics textbook, *Understanding Acoustics*, in 2016, he retired from Penn State but continues experimental research and development in thermoacoustics and sonic gas analysis as a freelance physicist.

*"My year as F. V. Hunt Fellow determined the direction of a career in acoustics that has been challenging and rewarding over four decades. In Sussex I shared an office with Prof. Richard Packard who was on sabbatical from UC-Berkeley. He invited me to spend the following two years in his laboratory where I also had the pleasure of working with Greg Swift. When Greg left to take the Oppenheimer Postdoctoral Fellowship at Los Alamos National Laboratory, so he could work on novel heat engines with John Wheatley, the field of thermoacoustics was born. After doing a PhD under the supervision of Isadore Rudnick [see *Acoustics Today* 13(4), Dec 2017] and Seth Putterman [Nature 437 (7063), 1224 (Oct 2005)], the Hunt allowed me to continue working with talented and innovative physicists. Seth and Izzy are a hard act to follow! The Hunt fellowship set me on a path of lifelong learning."*



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### 1979-80: Mary J. Osberger



After completion of graduate work at the City University of New York, Dr. Osberger remained there for her Hunt-supported postdoctoral year. Her research topic was the computer simulation of the speech of the deaf. Since that time she has worked at the Indiana University School of Medicine in Indianapolis, and she is now concerned with clinical studies toward improvement in cochlear implant technology, at advanced Bionics Corp. in Sylmar, California.

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### 1980-81: Cynthia A. Prosen

With a doctorate from the University of Michigan at Ann Arbor, Dr. Prosen benefited from her Hunt Fellowship support at Northwestern University in Evanston, Illinois. There, working under the supervision of Dr. Peter Dallos, she greatly expanded her research skills and established a productive, flexible auditory behavioral laboratory for future research projects. Her specific research study was on the behavioral and electrophysiological measures of frequency encoding in the chinchilla. She spent most of her career at Northern Michigan University as a Professor of Psychology, where she mentored many undergraduate students in her transgenic mouse research laboratory exploring the role of the efferent auditory system in hearing, and in developing an animal model of tinnitus. Dr. Prosen ended her career as the Dean of Research and Graduate Studies, and Associate Provost, at Northern Michigan University.



Dr. Prosen pictured during her Hunt fellowship tenure (left), as the Dean of Research and Graduate Studies and Associate Provost at Northern Michigan University (center), and pictured with a group of freshmen fellows (right).

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### 1981-82: Daniel Rugar

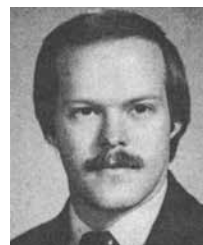


After completion of graduate work at Stanford University under Prof. Calvin Quate, Dr. Rugar carried out his Hunt Fellowship work in the same group developing ultrahigh resolution ultrasonic imaging using gigahertz frequency acoustic waves in liquid helium. He then joined the IBM Research Division at the Almaden Research Center in San Jose, California, where he is currently manager of Nanoscale Studies. His research contributions have spanned a number of areas, including scanning probe microscopy, nanomechanics, ultrasensitive force detection, nanoscale magnetic resonance imaging and superconducting quantum computing.

*“Receiving the 1981 Hunt Postdoctoral Research Fellowship helped launch a fulfilling scientific journey that still continues today. Although my scientific journey has taken me far from the world of acoustics, I credit the Hunt Fellowship for giving me a key early opportunity for scientific exploration.”*

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### 1982-83: Wesley N. Cobb



Dr. Cobb completed his graduate studies at the University of Texas at Austin and Yale University. Subsequently, he pursued postdoctoral work with Prof. Robert Apfel at Yale's Applied Mechanics Department. His research focused on the development of a frequency domain method for the prediction of the ultrasonic field patterns of pulsed, focused radiators. He subsequently held a number of industry positions, with focus on the development of ultrasonic instruments for oil-field and pipeline applications, and is currently Research Professor of Engineering, and Director of the Center of Ultrasound and NDE, at the University of Denver.

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### 1983-84: Mark F. Hamilton



Dr. Hamilton during his Hunt fellowship tenure (left); Dr. Hamilton receives the Helmholtz-Rayleigh Interdisciplinary Silver Medal from ASA President James Miller in 2014 (right).

With a doctorate in acoustics from Pennsylvania State University begun under Prof. Francis Fenlon, and following graduate research that was completed at the University of Texas at Austin under Prof. David Blackstock, Dr. Hamilton spent his year

as Hunt Fellow at the University of Bergen in Norway. There he worked with Profs. Jacqueline and Sigve Tjøtta on modeling nonlinear sound beams. He returned to UT Austin for a second postdoctoral year and then joined its faculty in 1985, becoming the Harry L. Kent, Jr. Professor in Mechanical Engineering in 2001. He has worked continually in nonlinear acoustics and received the ASA R. Bruce Lindsay Award in 1989, the ASA Helmholtz-Rayleigh Interdisciplinary Silver Medal in 2014, and served as ASA President (2008-2009).

*“The Hunt Fellowship contributed substantially to rounding out my postgraduate education both academically and culturally.”*

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### 1984-85: Christine H. Shadle



Dr. Shadle with Dr. Johan Liljencrants in 1987 (left), and pictured recently (right).

Following graduate work on the acoustics of speech production at the Massachusetts Institute of Technology, Dr. Shadle spent her postdoctoral years – one funded by the Hunt and a second by NATO — at the Institute of Sound and Vibration Research

at University of Southampton, UK, and at the Department of Speech Communication and Musical Acoustics of KTH, Stockholm, Sweden. At the ISVR she extended her thesis research, working on the aeroacoustics of fricative consonants and of laryngeal vibration, using mechanical models for flow visualization and acoustic measurements. At KTH she used human subjects for acoustic studies and vocal tract imaging. She then accepted an academic position in the School of Electronics and Computer Science at the

University of Southampton. Since 2004 she has been at Haskins Laboratories, New Haven, CT. She is on the Permanent Committee for the International Conference on Voice, Physiology and Biomechanics, has been an Associate Editor of Speech Production for JASA, is an ASA Fellow, and served on ASA's Executive Council from 2014-17.

*“I learned more about aeroacoustics experiments, including flow visualization, and began work on aeroacoustics of phonation and on vocal tract imaging during my postdocs. I also learned some Swedish, but was never able to adopt a convincing British-English accent!”*

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### 1985-86: Anthony A. Atchley



Dr. Atchley, then (left) and now (right).

A physics graduate from University of Mississippi, Dr. Atchley carried out his postdoctoral research in Prof. Robert Apfel's lab at Yale University. His research there concerned cavitation nucleation, the detection of acoustic cavitation, and the dependence of cavitation thresholds on different parameters, which resulted in several publications and

presentations. After the Hunt-Fellowship supported year, he joined the faculty of Naval Postgraduate School in Monterey, California. He is presently Professor in the Graduate Program in Acoustics at the Pennsylvania State University. Dr. Atchley is a recipient of the R. Bruce Lindsay Award and was ASA President (2006-07).

*“The 8th Hunt Fellowship enabled me to work with Prof. Robert Apfel and his inspirational research group at Yale University. Working closely with Leon Frizzell, on sabbatical leave from the University of Illinois at Urbana-Champaign, Christy Holland, Sameer Madanshetty and Ron Roy, we noticed that cavitation could be detected passively and used the method to investigate the dependence of cavitation thresholds on various pulse parameters. Also while supported by the Fellowship, I was introduced to thermoacoustics which consumed the next phase of my career. This interest in high amplitude sound evolved over time into studies of the nonlinear propagation of noise from sub- and supersonic aircraft.”*

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### 1986-87: M. Christian Brown



Dr. Brown studied at the University of Michigan, and subsequently pursued postdoctoral research in the auditory neuroanatomy and neurophysiology at the Massachusetts Eye and Ear Infirmary in Boston. His goal was to study the feedback system that conveys information from the brain to the inner ear, the olivocochlear efferent system. He currently holds a joint appointment as Associate Professor of Otology and Laryngology at the Massachusetts Eye and Ear Infirmary and at Harvard Medical School.

*"The F. V. Hunt Postdoctoral Research Fellowship was extremely helpful to me and allowed me to gather data on neural feedback systems to the inner ear. These systems help protect the ear from damage and allow our hearing to screen out background noise from useful signals. The data gathered served as a springboard to a research program (funded by the National Institute on Deafness and other Communication Disorders) that began in the 1980's and continues to this day. I was of course very pleased to be awarded the fellowship – the other person who was pleased was my father, Richard K. Brown, who had worked under F. V. Hunt in the early 1940's at Harvard's Underwater Sound Laboratory, and who later taught acoustics and circuits in electrical engineering at University of Michigan!"*

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### 1987-88: Ian M. Lindevald



Dr. Lindevald, then (left) and now (right).

Upon completion of graduate studies in Physics at Case Western Reserve University, Dr. Lindevald spent his postdoctoral year with Dr. Ernst Terhardt at the Institute of Electroacoustics at the Technical Institute of Munich, Germany. His primary experimental research was

focused on the investigation of the perceived pitch of spectrally dense organ tones in the reverberantly decaying sound field of a church. A number of additional projects were also completed. He is now Professor and Chair of Physics at Truman State University in Kirksville, Missouri.

*"My Hunt Fellowship year was a great intercultural experience for me. It was my first European adventure, and I made many German friends. The research expanded my understanding of the methods of Psychoacoustics and exposed me to a different model of post-graduate education. Bavaria is one of the magical places on this earth, and I felt extremely privileged to spend a year there. I am forever grateful for the opportunity I was provided through the Hunt Fellowship."*

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### 1988-89: Elizabeth C. Oesterle



Dr. Oesterle carried out PhD thesis research in auditory physiology with Dr. Peter Dallos at Northwestern University, and, as a Hunt Fellow, she explored structural and molecular properties of inner ear sensory epithelial cells at the University of Washington in Seattle with Dr. Edwin Rubel. She investigated the hypothesis that proteins known to be present in CNS Glia are also present in the inner-ear supporting cells. She remained at the University of Washington following the fellowship year, becoming a member of the Department of Otolaryngology-Head and Neck Surgery faculty with interests focused on the anatomy and physiology of the inner ear and hair cell regeneration. She retired recently from the University of Washington.

*"I am grateful and honored to have received the Hunt Fellowship, and it came at a pivotal time in my career. Not only did it allow me to make important new contacts, learn new experimental techniques and a new research area, it enabled me to start acquiring important grantsmanship skills. The techniques learned during the fellowship were crucial for the studies I later went on to pursue, and the grantsmanship skills facilitated my being able to pursue them. On a personal note, my first child was born during my fellowship and a life-long love of seafood, the ocean, and the beautiful city of Seattle was begun."*

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### 1989-90: E. Carr Everbach



Dr. Everbach pictured circa 1989 (left), and more recently (right).

Following his graduate studies at Yale University under Robert Apfel, Dr. Everbach carried out postdoctoral research studies at the Rochester Center of Biomedical Ultrasound at the University of Rochester, Rochester, New York. The main goal of his study was to determine the mechanisms

of kidney and gallstone destruction by acoustic lithotripsy. Collaborative efforts with several scientists and MD's led to a productive career leveraging cavitation in biomedical applications. Dr. Everbach has served as the chair of the (now) Biomedical Acoustics Technical Committee of the ASA and on committees representing the Physical Acoustics Technical



Committee. He is currently serving as chair of the Engineering Department at Swarthmore College near Philadelphia, Pennsylvania.

*"In my Hunt Fellowship 1989-90, I was privileged to work with Edwin Carstenson and his remarkable collaborators at the University of Rochester. That work led to a Presidential Faculty Fellow Award (now CAREER Award) from the NSF that helped me build a laboratory at Swarthmore College and extend my collaborations with MDs and PhDs at many other universities. Working with bright, motivated undergraduates is especially gratifying when we are in collaboration with researchers at larger universities. The Hunt Fellowship opened many doors that have benefitted me and my students."*

### 1990-91: Kenneth A. Cunefare

Upon completion of his graduate studies at the Pennsylvania State University, Dr. Cunefare spent his Hunt postdoctoral year in residence at the Institute for Technical Acoustics, Technical University of Berlin, Germany, working with Prof. Manfred Heckl. His research topic was the investigation of the concept of exterior acoustic radiation modes, an idea that exterior acoustic fields could be decomposed in an orthogonal decomposition, where the eigenvalues correspond to the radiation efficiencies, and the corresponding eigen vectors correspond to particular vibrations on the surface of the body of interest. He is now a Professor of Mechanical Engineering at the Georgia Institute of Technology, Atlanta. He was elected Fellow of the Acoustical Society of America in 2003. In addition to his academic post, Dr. Cunefare is a founding member of Arpeggio LLC, an acoustics, noise, and vibration consultancy in Atlanta, GA.



Dr. Cunefare during his Hunt Fellowship training.



*"I arrived in Berlin in time to attend "The Wall" concert at The Wall, in the midst of German reunification. Herr Dr. Prof. Heckl instructed the staff and mitarbeiters to speak only German with me, which applied only during work hours but not during the later social hours. By a year later I had made connections at*

*several of the major European centers of research in acoustics, and had become reasonably fluent in German, enough so that when I returned to the States, there was as a time when if I couldn't think of the German word for a thing, I couldn't think of the English word, either."*

### 1991-92: Gregory J. Sandell



With strong interest in musical acoustics and a degree from Northwestern University, Dr. Sandell travelled to the University of California, Berkeley for his Hunt Fellowship year. There he investigated auditory science and musical sound processing with David Wessel. Subsequently, he held additional postdocs, for two years in the experimental Physiology Department at the University of Sussex in Brighton, England, and for three years at the Parmlly Hearing Institute of Loyola University in Chicago, Illinois, before turning to employment in the private sector.

### 1992-93: Quan Qi



Dr. Qi during his Hunt Fellowship tenure (left), and pictured recently (right).



Dr. Qi carried out both graduate and the Hunt postdoctoral research in the Department of Theoretical and Applied Mechanics at the University of Illinois at Urbana Champaign. His main focus was investigation of the mechanisms of

ultrasonic cleaning of small particles from wafer surfaces without using cavitation or chemical detergents. He also studied the effect of compressibility on acoustic streaming near a plane boundary and in a sound tube, and ultrasonic cleaning of compliant surfaces such as the skin. One of his proud accomplishments is finding a consistent asymptotic solution of acoustical streaming motion by accounting for heat transfer as well as compressibility effects in the boundary layer. The wafer cleaning study led him to silicon manufacturing and then to electronics packaging. Over years, he worked at such companies as HP (Ft. Collins, CO and Corvallis, OR), Tektronix (Beaverton, OR), Cisco (San Jose, CA), Triquint (Hillsboro, OR) and Intel (Hillsboro, OR) and learned to deal with different challenges such as thermal, reliability, electrical and design issues involved in making Unix servers, workstations, test and measurement and RF/wireless devices. Electronics packaging plays a significant role in reducing the size of memory sticks with increasing capacities, thickness of our laptop computers and, of course, our ever present cellphones. Presently, he is working for Apple in its Cupertino, CA, facility.

*"Upon graduation, I had to choose between a job with Cummings Engine Company (with a much better pay) or the Hunt Postdoctoral Fellowship. In*



*bindsight, I am very glad with my choice: although I did not stay in the Acoustics field, the Hunt Fellowship provides the needed room to reflect on what I wish to pursue professionally: I have had a front row seat to witness the rising microelectronics industry and how it benefits our daily lives. For this, I shall always be grateful to the Hunt Family and the Acoustical Society of America!"*

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### 1993-94: Charles E. Bradley



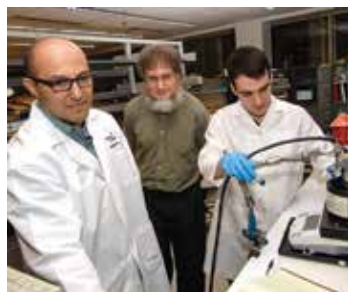
Following completion of graduate research in nonlinear acoustics at the University of Texas at Austin, Dr. Bradley traveled for postdoctoral experience to University of California at Berkeley, where he focused his attention on the possible use of acoustic streaming for cooling micro-electro mechanical systems, including miniature transducers. After a second postdoctoral year at UC, he accepted a research position in California with Siemens Medical Solutions Ultrasound Division.

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### 1994-95: T. Douglas Mast



Dr. Mast during his postdoctoral fellowship tenure (left), and with his research group at the University of Cincinnati (right).



Armed with his Pennsylvania State University doctorate, Dr. Mast spent his Hunt Fellowship year at the University of Rochester, New York. There he collaborated with Prof. Robert Waag and others on theoretical, computational, and

experimental investigations of acoustic scattering from soft tissues. These investigations had the general goal of improved methods for ultrasonic diagnosis of disease. The specific motivation for the research was to develop improved quantitative and high-resolution diagnostic ultrasound techniques for use with next generation ultrasonic apparatus. Dr. Mast is presently a Professor in Biomedical Engineering at University of Cincinnati, Cincinnati, Ohio.

*"In Rochester, I first learned many practices still important to my life, like analyzing ultrasound scattering by tissue, writing NIH proposals, and playing music for social dancing."*

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### 1995-96: Robin O. Cleveland

After the completion of his doctoral research at the University of Texas at Austin, Dr. Cleveland worked with Prof. Lawrence Crum at the Applied Physics Laboratory (APL) of the University of Washington in Seattle. His task was to carry out research in extracorporeal shock wave lithotripsy – the medical procedure whereby shock waves are used to break up kidney stones. The specific original goal of the fellowship year was to model the propagation of lithotripsy shock waves through tissue. He remained at APL for a second year as a full-time researcher, and was then a faculty member at Boston University for fourteen years, during which time his ASA involvement resulted in: the R Bruce Lindsay Award, Chair of the Biomedical Acoustics Technical Committee, an Associate Editor of JASA, and being named an ASA Fellow. In 2011 he moved to his current position as Professor of Engineering Science at the University of Oxford in the UK.



Dr. Cleveland during his Hunt fellowship tenure (left), and pictured recently (right).



*"The Hunt Fellowship was the vehicle by which my training in shock propagation could be used to further research in other areas. After my fellowship, I joined the faculty at Boston University where a collaboration with Oak Ridge National Laboratory resulted in a project to understand shock wave generation and propagation in liquid mercury."*

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### 1996-97: Mark A. Hasegawa-Johnson



Dr. Hasegawa-Johnson during his Hunt Fellowship tenure (left), in 2000 (center) and pictured recently (right).

Building upon his graduate studies at the Massachusetts Institute of Technology, Dr. Hasegawa-Johnson split his postdoctoral year between Cambridge and Los Angeles. He worked with Prof. Abeer Alwan at University of California at Los Angeles and Prof. Ken Stevens at MIT to study the relationships among articulatory dynamics, vowel formant dynamics, and vowel spectral dynamics.

Their observations from the field of speech production led to the exploration of a new model of speech recognition, in which the dependence of acoustic spectra on phoneme identity is mediated by the dynamics of two to four continuous—valued hidden state variables. Dr. Hasegawa-Johnson is currently a Professor in the Electrical and Computer Engineering Department of the University of Illinois in Urbana Champaign.

*“I was the Hunt Post-Doctoral Fellow in 1996-1997; my Hunt fellowship led directly to a successful application for an NIH R01 post-doctoral fellowship with the same mentor, which led, in turn, to my current position as Professor at the University of Illinois.”*

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### 1997-98: James J. Finneran



Following graduate study at the Ohio State University, Dr. Finneran worked with Dr. Sam Ridgway at the US Navy Marine Mammal Program, Space and Naval Warfare Systems Center (SSC) Pacific, in San Diego. Accomplishments during the year included the development of a computer-controlled system for archiving the facility's rather large collection of magnetic tape based data, and collaboration on marine mammal temporary threshold shift experiments. Dr. Finneran has

stayed at SSC Pacific, first as an NRC Postdoctoral Fellow, and now as a full-time employee studying marine mammal hearing, biosonar, and the effects of underwater noise on marine life. In 2002, Dr. Finneran received the Society's R. Bruce Lindsay award for contributions to the understanding of auditory mechanics and transduction to teleost fish and of hearing by dolphins.

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### 1998-99: Lily M. Wang



*Dr. Wang pictured during her Hunt Fellowship tenure (left), and pictured recently (right).*



Dr. Wang completed her graduate studies in acoustics at Pennsylvania State University, and spent her postdoctoral year with Dr. Anders Gade in the Acoustic Technology Department at the Technical University of Denmark. Her research efforts were focused on investigating the phenomenon of spatial impression in concert halls, and they sought to clarify which

objective measure (and therefore physical explanation) best matched the

subjective perception of spatial impression. She is currently a Professor in the Durham School of Architectural Engineering and Construction and Associate Dean for Graduate Programs and Faculty Development in the College of Engineering at the University of Nebraska – Lincoln. She has received the ASA R. Bruce Lindsay Award (2005) and the ASA Student Council Mentoring Award (2015), and has served the society as Chair of the Technical Committee on Architectural Acoustics (2004-07), ASA Vice-President (2015-16) and is currently the ASA President-Elect (2017-18).

*“I learned a great deal about computer modeling of room acoustics, but also learned to speak Danish through weekly evening lessons offered by the Danish government for foreigners ... hav det godt!”*

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### 1999-2000: Penelope Menounou



With an F. V. Hunt Postdoctoral Research Fellowship, Dr. Menounou continued theoretical studies, in the mechanical engineering department of the University of Texas at Austin on the Propagation of Finite Amplitude Noise. Her goal was to predict the effect of nonlinear propagation distortion on the power spectral density of a given noise source, when the time waveform itself was not known. A new method was developed that predicted the combined effect of nonlinearity and thermoviscous

attenuation directly on the power spectral density of a given noise source. She has continued research on traffic noise propagation and diffraction.

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### 2000-01: James C. Lacefield



*Dr. Lacefield during his Hunt Fellowship tenure (left), and pictured recently (right).*

heterogeneous tissue using two-dimensional (matrix) transducer arrays. The research was performed at the University of Rochester in collaboration with Prof. Robert C. Waag. Dr. Lacefield is now a Professor of Electrical

Following doctoral training in biomedical engineering at Duke University, and with the support of the F. V. Hunt Fellowship, Dr. Lacefield investigated methods for the estimation and compensation of ultrasound focusing errors (i.e., aberration) produced by propagation through

and Computer Engineering and Medical Biophysics and Director of the Biomedical Engineering Graduate Program at Western University in London, Ontario, Canada.

*"My Hunt Fellowship research project greatly developed my knowledge of array signal processing. More importantly, the Fellowship granted me opportunities to begin forming my own scientific network through the ASA and other organizations. Holding the Hunt Fellowship provided me both encouragement and financial resources to become more active in the biomedical ultrasonics research community, which was a key step toward launching my academic career."*

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### 2001-02: Chao-Yang Lee

After completing his PhD in cognitive and linguistic sciences at Brown University, Dr. Lee studied speech acoustics with Prof. Ken Stevens at Massachusetts Institute of Technology for his Hunt Fellowship year. Their project examined how acoustic properties of speech are processed to access lexical representations based on the knowledge of articulatory-acoustic-linguistic relationships. They also investigated the articulatory and acoustic characteristics of fricative consonants in Mandarin Chinese. He is presently an Associate Professor in the School of Rehabilitation and Communication Sciences at Ohio University.

*"The Hunt Fellowship allowed me to witness how great scientists think, act, and educate. The experience also inspired me to mentor my students with respect and genuine interest, just as I was mentored by Prof. Ken Stevens."*



Dr. Lee with his mentor (left) and with his mentees (right).

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### 2002-03: Constantin-C. Coussios



Dr. Coussios during his Hunt Fellowship (top), Dr. Coussios (standing second from left) at Boston University in 2003 (bottom left), and at Oxford University (first from right) in 2015 (bottom right).

Prof. Coussios completed his PhD in Acoustics at the University of Cambridge, England, under the supervision of Prof. J.E. Ffowcs Williams. He worked with Prof. Ronald Roy at Boston University for his Hunt Postdoctoral Research Fellowship year. His research focused on the modeling and detection of acoustic cavitation in tissue-mimicking media during High Intensity Focused Ultrasound therapy. Prof. Coussios now holds the Statutory Chair in Biomedical Engineering at the University of Oxford and serves as the Director of the Oxford Institute of Biomedical Engineering. In 2009, he was elected Fellow of the Acoustical Society of

America and, in 2012, the Society recognized his contributions to 'Biomedical Ultrasonics' with the R. Bruce Lindsay Award. In 2017 he was awarded the Silver Medal by the UK's Royal Academy of Engineering.

*"The Hunt fellowship provided me with a unique opportunity to learn about acoustically driven bubbles, both experimentally and theoretically, from some of the world's leading experts, who also turned out to be some of the most sound, caring and entertaining mentors, philosophers and friends that Beantown has ever seen!"*



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#### 2003-04: Tyrone M. Porter



Dr. Porter completed his PhD in Bioengineering from the University of Washington at Seattle, working with Prof. Lawrence Crum. He worked with Prof. Christy Holland at the University of Cincinnati, Cincinnati, Ohio for his Hunt postdoctoral fellowship year. His research was focused on using ultrasound to lyse blood clots. He is presently Associate Professor of Mechanical Engineering and Biomedical Engineering at Boston University. Dr. Porter received the R. Bruce Lindsay

Award in 2008 and was elected fellow of ASA in 2017.

*"My tenure as a Hunt Postdoctoral Fellow paved the way for a faculty position at Boston University where I continue to work on vesicles and droplets in an emerging research field that combines therapy and diagnostics more commonly known as theranostics."*

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#### 2004-05: Xuedong Zhang



Dr. Zhang completed his doctoral work at Boston University, MA. During his Hunt Fellowship term, Dr. Zhang worked in the Auditory Perception Group with Prof. Andrew J. Oxenham at MIT to study human cochlear mechanics in the low-frequency region, by combining behavioral and quantitative modeling techniques. The specific goal of the research was to estimate the human cochlear tuning at low frequencies using both non-simultaneous (forward) and

simultaneous masking techniques, and to explore whether any differences in the estimates can be attributed to the nonlinear interactions between the masker and signal within the cochlea. He currently holds a position at Google in Mountain View, CA, as a Senior Software Engineer.

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#### 2005-06: Catherine L. Berchok



After Dr. Berchok completed her doctoral work, she spent her year as Hunt Postdoctoral Fellow under the guidance of Dr. Gerald D'Spain and Dr. John Hildebrand at the Marine Physical Laboratory in the Scripps Institution of Oceanography, University of California, San Diego, CA. Dr. Berchok studied the Lombard effect in fin whales, and developed a method to visualize and quantify the impact of measurement uncertainties on source localization errors. She is

currently a Research Biologist at the National Oceanic and Atmospheric Administration in Washington, D.C.

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#### 2006-07: Erica E. (Bowden) Ryherd



*Dr. Ryherd in Sweden during her Hunt Fellowship experience (left), and pictured recently (right).*

Dr. Ryherd pursued her Hunt Fellowship at the Sahlgrenska Academy of Medicine of Gothenburg University in Sweden under the mentorship of Dr. Kerstin Persson Waye. She worked on improving the hospital soundscape by investigating the impacts of multi-source, time-variant hospital noise on occupants. Dr. Ryherd saw this topic as an exciting opportunity to

combine her background in building systems engineering with Dr. Persson Waye's medical expertise. Dr. Ryherd is currently an Associate Professor of Architectural Engineering at the University of Nebraska-Lincoln. Her primary interests are in noise control, architectural acoustics, building systems engineering, healthcare design, and the response of building occupants to sound. She is a former Secretary of the ASA Technical Committee on Architectural Acoustics (2013-16), Chair of the ASA Women in Acoustics Committee (2012-15), and Co-Chair of the ASA Regional Chapters Committee (2009-12).

*"Through the Hunt Fellowship, I was able to deepen my skillset by pursuing interdisciplinary research in occupational and environmental health. I will never forget the excitement of working in an entirely different environment and learning how to navigate both medical terminology and another language simultaneously. The adaptability I gained by facing those challenges served me well on my path to tenure."*

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## 2007-08: Julie N. Oswald



Dr. Oswald (left), Dr. Oswald with Riley Oswald (center), and Riley with Dr. Whitlow Au (right).

Dr. Oswald received her doctoral degree in Biological Oceanography from the Scripps Institution of Oceanography, University of California. During her Hunt

Fellowship year, Dr. Oswald undertook a research project at the Hawaii Institute of Marine Biology, University of Hawaii, Kailua, HI, under the guidance of Dr. Whitlow W.L. Au of the Marine Mammal Research Program. Her postdoctoral work was focused on developing approaches to acoustically monitor the occurrence, distribution, and abundance of marine mammals in Hawaiian waters. Specifically, she increased the accuracy of the acoustic species identification software ROCCA (Real-time Odontocete Call Classification Algorithm), and used acoustic data collected at the Station ALOHA cabled observatory (ACO) to study the occurrence of minke whales. Dr. Oswald is currently a Marie Skłodowska-Curie Research Fellow at the University of St Andrews in Scotland.

*"My time as a Hunt Fellow in Hawaii allowed me to work with a wonderful mentor who is now like family, provided opportunities to learn about diverse areas of research across the marine sciences, and opened doors that set me on the path to where I am today. I also came away with a deep appreciation for Hawaiian culture and friendships that will last a lifetime. A hui hou!"*

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## 2008-09: Todd A. Hay



Dr. Hay completed his PhD from The University of Texas at Austin. As a Hunt Postdoctoral Fellow, Dr. Hay worked under the mentorship of Dr. Michel Versluis and Prof. Detlef Lohse in the Physics of Fluids (PoF) group at the University of Twente in the Netherlands. His graduate research focused on the development of theoretical models for bubble-particle interaction and bubble behavior in compliant channels, and the facilities and expertise available in the PoF group provided a

unique opportunity to test these models. His postdoctoral work investigated the dynamics of micron-sized ultrasound contrast agent bubbles in confining environments. Dr. Hay is currently a Research Associate at the Applied Research Laboratories, The University of Texas at Austin.

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## 2009-10: Alison K. Stimpert



Dr. Stimpert with Dr. Whitlow Au, before her Hunt Fellowship tenure (left), and pictured recently (right).

During her tenure as a Hunt Fellow, Dr. Stimpert worked with both Dr. Whitlow Au of the Hawaii Institute of Marine Biology at the University of Hawaii, and Dr. Douglas Nowacek at Duke University. The overall theme of her postdoctoral fellowship work was to characterize

the acoustic behavior of humpback whales using non-invasive, digital acoustic recording tags. Dr. Stimpert is currently a member of the Research Faculty at Moss Landing Marine Laboratories in Moss Landing, CA. Her primary interests lie in the intersection of bioacoustics and conservation.

*"During the Hunt Fellowship, not only did I develop my skills in signal processing, but my project reinvigorated my overall research questions with surprising data from new study populations in the Antarctic, and refreshed my motivation to continue my career in academia."*

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## 2010-11: Michael Canney



Dr. Canney in the lab with the team he worked with during the Hunt Fellowship (left), and pictured recently (right).

Dr. Canney completed his doctoral degree at the University of Washington in Seattle, where he performed research on the role of nonlinear acoustic propagation in the context of high

intensity focused ultrasound treatments. As the 2010-2011 Hunt Fellow, Dr. Canney performed research at the Laboratory of Therapeutic Applications of Ultrasound in Lyon, France (LabTAU, INSERM U1032). The primary goal of his research was to develop ultrasound-based devices for the treatment of brain diseases. As part of this work, he developed an interstitial device for the thermal ablation of brain tumors as well as an implantable device for brain drug delivery. Subsequently, he continued to live in France for an additional five years and worked at CarThera, where he helped to transition these therapeutic ultrasound devices into the clinic.

Dr. Canney is presently a Medical Device Consultant and lives in Denver.

*"I had a challenging but incredibly rewarding time learning French and immersing myself in the research of a French public laboratory that specialized in therapeutic ultrasound during my Hunt Fellowship year."*

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### 2011-12: James J. Choi



Dr. James Choi finished his doctoral degree at Columbia University in New York, working in Prof. Elisa Konofagou's group. As a F. V. Hunt Postdoctoral Research Fellow, Dr. Choi worked at the University of Oxford under the mentorship of Prof. Constantin Coussios. The broad scope of his postdoctoral research was to create incision-less surgical and drug delivery devices using ultrasound. Specifically, Dr. Choi focused on developing "acoustic vision" to enable the spatial,

temporal, spectral, and quantitative imaging of ultrasonically generated activity deep within our body. Dr. Choi is presently a lecturer (US equivalent of Assistant Professor) at Imperial College in London. He is on the Bioacoustics Technical Committee for ASA.

*"I learned how to monitor noninvasive ultrasound surgery by passively imaging the unique sound that is produced during these procedures. I was also able to experience the wonderful culture found in Oxford and England, which ultimately opened the way to me applying to universities in the United Kingdom."*

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### 2012-13: Julia Huyck



Dr. Julia Huyck obtained a PhD in communication sciences from Northwestern University in Chicago. As the 2012–2013 F. V. Hunt Postdoctoral Fellow, Dr. Huyck studied perceptual learning of degraded speech under the mentorship of Dr. Ingrid Johnsrude at Queen's University in Kingston, ON, Canada. Her work focused on using functional magnetic resonance imaging to investigate (1) how neural activity during effective speech perception training differs from activity during

ineffective training using the same stimuli and (2) how the neural processing of degraded speech changes with learning. Dr. Huyck is presently an Assistant Professor in the School of Health Sciences at Kent State University.

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### 2013-14: Likun Zhang



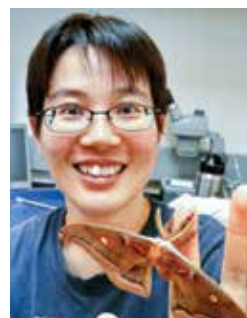
Following his graduate work at Washington State University under the guidance of Prof. Philip Marston, Dr. Likun Zhang carried out his postdoctoral research at University of Texas at Austin in Prof. Harry L. Swinney's group. He pursued research in underwater acoustics at the University of Texas at Austin (UT-Austin) and at Woods Hole Institute of Oceanography (WHOI). The Hunt Fellowship provided Dr. Zhang the opportunity to shift from analytical work on physical acoustics and fluid

dynamics to numerical and laboratory work on underwater acoustics. Dr. Zhang is currently an Assistant Professor in the Department of Physics and Astronomy at University of Mississippi.

*"I am very grateful to the Hunt Fellowship for providing me with the opportunity to shift from analytical work on physical acoustics and fluid dynamics in my PhD study to numerical and laboratory work on underwater acoustics in postdoctoral research."*

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### 2014-15: Wu-Jung Lee



*Dr. Lee pictured with a moth from which she measured echoes.*

Dr. Wu-Jung Lee obtained her doctoral degree from the Joint Program in Applied Ocean Science and Engineering at Massachusetts Institute of Technology and Woods Hole Oceanographic Institution. During her tenure as the Hunt Fellow, she worked on the echolocation of both bats and dolphins with Dr. Cynthia Moss at Johns Hopkins University and Dr. Whitlow Au at Hawai'i Institute of Marine Biology. The Fellowship provided Dr. Lee the opportunity to expand her research from acoustical oceanography to the behavior and neuroscience of animal sonar, and to establish both professional and personal relationships with scientists in areas outside of her previous

academic training. She is currently a Research Associate at the Applied Physics Laboratory at University of Washington.

*"The Hunt Postdoctoral Research Fellowship gave me the freedom and flexibility to take a detour to pursue research topics that are not on a linear path from my PhD training. These opportunities lay the foundation for me as an early career scientist to integrate the conventional physics-based approach with the study of biological sonar toward a goal of developing better acoustic tools to observe and understand the ocean."*



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## 2015-16: Jason L. Raymond



Dr. Raymond and Dr. Ron Roy in the Physical Acoustics Laboratory at the University of Oxford (left); Dr. Raymond and wife Ying Luan with Ron and Nancy Roy, at the city wall in Nanjing (2015) (center); and Dr. Raymond standing in the center of the circular acoustic "echo" wall near the great Tian Tan Buddha at Ngong Ping, Lantau Island, Hong Kong on a visit to China during the Hunt Fellowship term (right).

Dr. Raymond obtained a PhD in Biomedical Engineering from the University of Cincinnati, working at the Image Guided Therapeutics Laboratories under the guidance of Prof. Christy Holland. The focus of his doctoral research was to characterize echogenic liposomes as therapeutic delivery agents. Dr. Raymond completed his Hunt Fellowship year at the University of Oxford working with Profs. Ronald Roy and Robin Cleveland on acousto-optic sensing for monitoring lesions created by high-intensity focused ultrasound (HIFU) therapy. Dr. Raymond has continued his research after completion of the Hunt Fellowship year and he is currently a Senior Research Associate in Physical Acoustics at the University of Oxford.

*"It was my hope and expectation that the F. V. Hunt Fellowship would help to define a unique trajectory for my career. Prof. Roy provided a wonderful atmosphere at Oxford in which I was able to begin to establish my career as an independent scientist, develop a network of collaborators, and conduct research. A highlight of my term was the opportunity to travel to China in the autumn of 2015, during which I visited four research laboratories relating to my work in therapeutic ultrasound and delivered two invited seminars (I also became engaged to marry my wife, Ying Luan, in Nanjing during this trip!). I am grateful to the Hunt family estate and the Acoustical Society of America for offering this fellowship, which has not only provided me with the opportunity to conduct research at the University of Oxford, but also the flexibility to develop as an independent scientist and to work with international collaborators."*

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## 2015-16: Himanshu Shekhar

Dr. Shekhar completed his PhD in Electrical Engineering at University of Rochester in Prof. Marvin Doyle's group. His doctoral research was focused on acoustic characterization and nonlinear imaging of ultrasound contrast agents, and supported by the Howard Hughes Medical Institute Med-to-Grad Fellowship. As a recipient of the Hunt fellowship, Dr. Shekhar worked at the University of Cincinnati in Prof. Christy Holland's group. The goal of his work was to develop ultrasound-enhanced drug delivery approaches to treat vascular disease. Dr. Shekhar has continued his research at the University of Cincinnati, where he is exploring techniques for ultrasound-mediated delivery of therapeutics gases for treating stroke.



Dr. Shekhar during his Hunt Fellowship tenure (left); Dr. Shekhar with his wife, Dr. Karla Mercado-Shekhar during their visit to India in 2017 (center); and Dr. Shekhar (back row) with members of the Image-Guided Ultrasound Therapeutics Laboratory at University of Cincinnati (right).

*"The Hunt Fellowship allowed me to augment my training in diagnostic ultrasound with translational research experience in therapeutic ultrasound by working with Prof. Christy Holland. The training, mentorship and the exposure received during the Hunt Fellowship tenure has prepared me for an academic research career. A very fulfilling experience overall!"*

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## 2016-17: Romain Fleury

Dr. Romain Fleury obtained his doctoral degree from University of Texas at Austin, working in the group of Prof. Andrea Alù. Dr. Fleury worked as a postdoctoral Research Fellow under the guidance of Prof. Mathias Fink at Institut Langevin and the École Supérieure de Physique et de Chimie Industrielles in Paris, France. The goal of this work was to investigate the possibility to construct backscattering-immune acoustic waveguides based on the acoustic analogs of topological insulators. Dr. Fleury credits the Hunt Fellowship for having the opportunity to develop strong collaborations with scientists in France. After completing his Hunt Fellowship tenure, Dr. Fleury was hired as a tenure-track Assistant Professor of Electrical Engineering at the Ecole Polytechnique Fédérale de Lausanne.



A recent picture of Dr. Fleury (left). Participants at the Cargèse doctoral school on Waves in complex media, organized by Prof. Mathias Fink, who mentored Dr. Fleury during his Hunt Fellowship tenure (right).

*“I learned a lot about acoustic time-reversal and its applications to wave manipulation and medical imaging during weekly seminars at the Langevin Institute.”*

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## 2017-18: Anna C. Diedesch



Dr. Diedesch (left) and KEMAR (Knowles Electronic Manikin for Acoustics Research) dressed up for his hearing aid test (right).

Dr. Anna Diedesch completed her doctor of audiology at Wichita State University. After working as a research audiologist for the National Center for Rehabilitative Auditory Research, she returned to pursue her PhD at University of Washington studying under the guidance of Prof. G. Christopher Stecker. Dr. Diedesch received her PhD in Prof. Stecker's lab at Vanderbilt University where she investigated the effects of hearing aid venting and reverberation on binaural cue weighting. Dr. Diedesch then pursued a postdoctoral research fellowship under the mentorship of Dr. Frederick Gallun at the Oregon Health and Sciences University and the Portland VA Medical Center. Her work in Portland, OR, funded by the F. V. Hunt Postdoctoral Research Fellowship focused on measuring binaural cues for modern hearing aid settings. Dr. Diedesch is presently an Assistant Professor at Western Washington University's Communication Sciences and Disorders department.

*“As the current Hunt Postdoctoral Research Fellow, I am evaluating binaural cue distortion in hearing aids at the VA RR&D National Center for Rehabilitative Auditory Research.”*

## A Personal Version of the History of the Hunt Fellowship

**Logan E. Hargrove, ASA Fellow Emeritus and Member since 1956**

Some people might wonder why I was so interested to suggest some special events at the New Orleans Meeting of the Society, December 2017, to celebrate the 40th anniversary of the Hunt Fellowship. I write this history with some personal details that might clarify my strong interest in the Hunt Fellowship.

I did not know Harvard Professor Frederick Vinton (Ted) Hunt very well, but I was in an evening Rump Session with him only hours before he died at an ASA Meeting in Buffalo NY, in April 1972. He had missed only one ASA Meeting since the first in 1929.

In part to assure his widow, Katherine, the Society asked the Office of Naval Research (ONR) to provide funds to establish a postdoctoral research fellowship in acoustics in his name. As ONR Scientific Officer for Physical Acoustics, I provided support for the first five years of the Hunt Fellowship, mostly from my Physical Acoustics Program.

I was appointed to the ASA Committee on Medals and Awards, with responsibility for the Hunt Fellowship, until I was asked to establish and chair a Committee on Special Fellowships (now the Committee on Prizes and Special Fellowships) to move the responsibility for the Hunt Fellowship and similar stipend-bearing awards from the Committee on Medals and Awards.

Many years ago I suggested and ASA provided a free lunch for former and present Hunt Fellows at an ASA Meeting. It was a well attended and a pleasant gathering. Ted Hunt's son, Thomas Hunt, attended.

## A Trip Down Memory Lane:

### *The 25<sup>th</sup> Anniversary Celebration of the F. V. Hunt Postdoctoral Research Fellowship*

In recognition of 25 years of successful operation of the F. V. Hunt Postdoctoral Fellowship Program, a commemorative luncheon was held in 2003 at the meeting of the Acoustical Society in Austin, Texas. More than half of the Fellows were present, along with Society officers, members of the Prizes and Special Fellowships Committee, and other individuals who have made valuable contributions to the effectiveness of the Program. It was a special treat to be joined by Dr. Thomas Hunt, son of the late ASA President, Gold Medalist, and Harvard University Professor Fredrick V. Hunt.



*Hunt Fellows and invited guests at the luncheon held to commemorate the 25th anniversary of the F. V. Hunt Postdoctoral Research Fellowship, Austin, Texas. Left to right: Anthony Atchley, Thomas Hunt, Lily Wang, Gregory Sandell, Tyrone Porter, T. Douglas Mast, Logan Hargrove, Carr Everbach, David Blackstock, Kenneth Cunefare, Steven Garrett, Ian Lindevold, Constantin Coussios, Mark Hasegawa-Johnson, Mark Hamilton, Constantine Trahiotis, Chao-Yang Lee, and Wayne Wright.*

A brochure prepared for the luncheon included a brief summary for each of the 25 Hunt Postdoctoral Research Fellows, along with a few words about Professor Hunt. A brief report on this event was published in the Journal of Acoustical Society of America in order to provide a wider distribution of information about the outcomes of this Society program.



## ASA Hunt Postdoctoral Research Fellows: Through the Years

A special poster session entitled “ASA Hunt Postdoctoral Research Fellows: Through the Years” was organized by Logan Hargrove and Lily Wang to commemorate the 40th Anniversary of the fellowship at the fall 2017 ASA meeting in New Orleans. Twenty-seven Hunt fellows contributed to this session. The titles of the contributed posters along with the names of the presenters are listed below.

- 3pIDb1.** Looking Back Forty Years on the Significance of My Hunt fellowship  
– *Steven L. Garrett*
- 3pIDb2.** From Acoustic Microscopy to Quantum Computing  
– *Daniel Rugar*
- 3pIDb3.** 1983-84 Hunt Postdoctoral Research Fellowship in Bergen, Norway  
– *Mark F. Hamilton*
- 3pIDb4.** F. V. Hunt and My Travels With Fricative Consonants  
– *Christine H. Shadle*
- 3pIDb5.** A Career in Acoustics Nucleated by the 8<sup>th</sup> Hunt Fellowship (1985-1986)  
– *Anthony A. Atchley*
- 3pIDb6.** Music Perception and the Hunt Fellowship  
– *Ian M. Lindevald*
- 3pIDb7.** Hunt Magic: A Lifetime of Fruitful Collaboration  
– *E. Carr Everbach*
- 3pIDb8.** From Berlin to Atlanta, With a Sojourn in Oz  
– *Kenneth Cunefare*
- 3pIDb9.** An Indispensable Detour: From a Hunt Postdoctoral Research Fellowship to Microelectronics Packaging  
– *Quan Qi*
- 3pIDb10.** Nucleation of a Career in Biomedical Ultrasound  
– *T. Douglas Mast*
- 3pIDb11.** Shock Waves in the Atmosphere, the Body, and Mercury  
– *Robin Cleveland*
- 3pIDb12.** Distinctive Features  
– *Mark A. Hasegawa-Johnson*
- 3pIDb13.** An Unexpected but Fulfilling Path: From a Hunt Postdoctoral Research Fellowship in Denmark to Academia in Nebraska  
– *Lily M. Wang*
- 3pIDb14.** An Appreciation of the Benefits of a Hunt Fellowship  
– *James C. Lacefield*

- 3pIDb15.** Expect the Unexpected: A Path Enlightened by the Hunt Fellowship  
– *Chao-Yang Lee*
- 3pIDb16.** Hunt-ing for New Therapies: From Red Blood Cells to Acoustic Nanobubbles  
– *Constantin Coussios*
- 3pIDb17.** HUNTING for New Biomedical Ultrasound Applications  
– *Tyrone M. Porter*
- 3pIDb18.** The Hunt Postdoctoral Fellowship: Opening Doors to Interdisciplinary Research  
– *Erica E. Ryherd*
- 3pIDb19.** The Hunt Fellowship: Inspiring Acoustics Professionals of the Future  
– *Alison K. Stimpert*
- 3pIDb20.** The French Connection: My Experience as a Hunt Fellow  
– *Michael Canney*
- 3pIDb21.** In Pursuit of Noninvasive Microsurgery  
– *James J. Choi*
- 3pIDb22.** The Unexpected but Fulfilling Impact of the Hunt Postdoctoral Research Fellowship in My Academia Career  
– *Likun Zhang*
- 3pIDb23.** I Wonder How Animals Can Do it so Well: An Ongoing Detour to Build Better Sonar, Enabled by The Hunt Fellowship  
– *Wu-Jung Lee*
- 3pIDb24.** Physical Acoustics and Oxford: My Experience as a Researcher, a Fellow, and Beyond  
– *Jason L. Raymond*
- 3pIDb25.** Impact of the F. V. Hunt Postdoctoral Fellowship on a Trainee's Research and Career Advancement  
– *Himanshu Shekhar and Christy K. Holland*
- 3pIDb26.** The F. V. Hunt Fellowship: A Step Towards Research Independence and Leadership  
– *Romain Fleury*
- 3pIDb27.** Frederick V. Hunt Postdoctoral Research Fellowship: My Journey Towards Clinical Research in Audiology  
– *Anna Diedesch*



*Frederick Hunt (far left) receiving the Pioneers of Underwater Acoustics Medal at the ASA meeting in St. Louis, MO, November 1965. Also pictured are John V. Bouyoucos, Chair of the ASA Technical Committee on Engineering Acoustics (center), and Robert W. Morse, ASA President (right).*