

ASM News

2011 Election Results

National Officers, 2012–2013



Jeffery F. Miller, UCLA School of Medicine, Los Angeles, Calif., is the new president of ASM for a 1-year term beginning 1 July 2012.



Jo Handelsman, Yale University, New Haven, Conn., is the new president-elect of ASM for a 1-year term beginning 1 July 2012.

Joseph Campos, Children's National Medical Center, Washington, D.C. has been elected as secretary of ASM for his sixth term beginning 1 July 2012.

James Tiedje, Michigan State University, East Lansing, Mich. is the new treasurer of ASM for his fifth term beginning 1 July 2012.

Divisional Group Representatives, 2012–2014

Two of the four divisional groups elected group representatives for 2-year terms beginning 1 July 2012.

Divisional Group II—Pathogenesis and Host Response Mechanisms (A, B, D, E, G, U, and Z)

Virginia Miller

University of North Carolina School of Medicine, Chapel Hill



Divisional Group III - General and Applied Microbiology (I, N, O, P, Q, R, and W)

Joy Doran Peterson

University of Georgia, Athens



Divisional Officers, 2012

The members of ASM's 27 divisions elected officers for terms beginning 1 July 2012. Chairs and chairs-elect serve a one-year term. The Table of Divisional Officers for 2012 is on page 87.

2012 General Meeting Award Laureates

The Committee on Awards is pleased to announce the 2012 General Meeting award laureates. Biographical sketches of the 2012 awardees appear below and in the next two issues of *Microbe*.

Roche Diagnostics Alice C. Evans Award

Micah I. Krichevsky, Ph.D, Chairman, Bionomics International, has been honored with the prestigious 2012 Roche Diagnostics Alice C. Evans Award from ASM. This award, established by the ASM Committee on the Status of Women in Microbiology, recognizes contribu-



Krichevsky

tions toward the full participation and advancement of women in microbiology. Krichevsky “has demonstrated his commitment to the full participation and advancement of women in science and microbiology through his service on and his contributing work

with the ASM Committee on the Status of Women in Microbiology (CSWM) and by his unending willingness to encourage, advise, mentor, and support individual women in their careers in microbiology,” explains Candace McManus, formerly of the FDA. Krichevsky was nominated by Sara Rothman, Walter Reed Army Institute of Research.

Krichevsky received his undergraduate degree at the University of Connecticut, Storrs, and his master’s and doctoral degrees in Dairy Science at the University of Illinois, Urbana. His research career at the National Institutes of Health, primarily at the National Institute for Dental Research, spanned 34 years, serving as a Section Chief from 1967 until his retirement in 1992. He then established *Bionomics International*, a nongovernmental organization.

Krichevsky has worked in several areas of microbiological research as well as parallel activities in human rights in science. His major research interests have included computer and instrument methodology and the growth, physiology, and metabolism of bacteria of the oral cavity. He developed the first real-time computer analysis of chromatographic data, computer algorithms for double-label isotope composition calculations, and algorithms for real-time analysis of gas chromatograph/mass spectrometers. He also developed a standardized method for computer coding of microbiological phenotypic and macromolecular data for data entry, management, analysis, and communication—the RKC Code. While computer independent, the Code can be coupled with the Microbial Information System (Micro-IS). The Micro-IS is constantly enhanced by taking advantage of modern computer programming techniques. The combination of the RKC Code and Micro-IS is used in various developed and developing countries.

Using his experience in acquiring and analyz-

ing microbiological data, Krichevsky has developed extensive collaborations worldwide. He has organized and taught workshops and designed data banks for UNEP, UNIDO, ASM, SIM, NSF, and ICSU/CODATA.

“His sterling service on the NIH’s Equal Employment Opportunity Committee earned him the Award for Outstanding Contributions to the Equal Employment Opportunity Program of the NIH in 1976,” says Rothman. “During his service on that committee he advised and assisted numerous women in their efforts to achieve appropriate recognition and opportunities in an often hostile environment.”

“Krichevsky worked tirelessly on as many as eight cases in one year to help female scientists facing illegal discrimination and unfair treatment in the nation’s foremost medical research institutes,” adds Anne Morris Hooke of Miami University. He continues his activities in human rights in science with an emphasis on international activities. He has also served as a member of the Committee on Equal Opportunities for Women for the American Society of Biological Chemists. Currently he is an active consulting participant in CSWM programs.

Krichevsky continues to advise and support persons who feel they have been denied equal opportunity in the workplace. “I hold him in the highest esteem and believe he is a more than worthy candidate for this prestigious award,” summarizes Hooke.

Carski Foundation Distinguished Undergraduate Teaching Award

The recipient of the 2012 Carski Foundation Distinguished Undergraduate Teaching Award is **Lilliam Casillas-Martínez, Ph.D.**, Professor, Biology Department, University of Puerto Rico-Humacao (UPRH). One of Casillas’ strongest passions is to educate and help women from low-income homes, or “invisible students,” as she calls them. Because there are so few Latin American women in positions of power, she feels that mentoring young women is crucial to their development. Nominator and former student Lorraine D. Rodríguez-Rivera, now a Ph.D. candidate in the Laboratory for Food Microbiology and Pathogenesis of Foodborne Diseases at Cornell University, describes Casillas’ effect on others: “Casillas has had a profound impact on the professional development



Casillas-Martínez

of many women in Puerto Rico. As my undergraduate advisor, she provided me with valuable tools for my career. I would like to become a professor and inspire minority students the way she inspired me towards becoming a professional in microbiology.”

Casillas received her B.S. in Industrial Microbiology from the University of Puerto Rico, Mayaguez, and her Ph.D. in Microbiology from the University of Connecticut, Storrs. There she studied *Bacillus subtilis* under the tutelage of Peter and Barbara Setlow. Upon completion of her doctorate, Casillas attended the Microbial Diversity Course in Woods Hole, and she continues to conduct research in emerging fields such as geomicrobiology and metagenomics. Once at the University of Puerto Rico-Humacao, Casillas started a productive collaboration in geomicrobiology with Pieter Visscher from the Integrative Geosciences Department at the University of Connecticut.

One of Casillas’ proud accomplishments is the NSF-funded Cabo Rojo Salterns Microbial Observatory, where undergraduate students learn how to conduct in situ studies. To date, more than 100 Puerto Rican students have received hands-on training in techniques in geomicrobiology and metagenomics. In addition to working on research projects, undergraduate students in Casillas’ lab are required to design outreach activities to implement during visits to local public schools. Her laboratory is well known for its active participation in science fairs, open houses, and the development of workshops for local high school teachers.

Casillas’ nomination was supported by Mayra Cancel, a high school teacher from the Puerto Rico public school system. “Casillas’ efforts have changed my perception of the community of researchers in Puerto Rico and have strengthened their ties with teachers of the public education system,” explains Cancel. “Education is basic for human progress, individually and collectively. Casillas’ workshops for teachers strengthen the collective of research groups in the schools of our community and have served as motivation to reaffirm our confidence in higher education and its commitment to educational principles.”

With the support of several agencies, Casillas has been able to combine undergraduate education with research projects such as characterizing novel microorganisms, constructing meta-

genomic libraries from various extreme environments in Puerto Rico, and screening for novel antibiotics. In the last decade, more than 50 undergraduates from her laboratory have continued graduate studies. “Casillas’ success as a teacher and a mentor is evident in the triumphs of her students. Her down-to-earth style of mentoring, her charismatic personality and her availability to her students allowed us to approach her whenever advice was needed,” described a former undergraduate student, Angel Casanova—now a Ph.D. candidate in the Microbiology Doctoral Training Program of the University of Wisconsin, Madison. “She is more than my undergraduate professor; she is a teacher from whom I have learned and acquired many skills that have allowed me to succeed in my quest for knowledge.”

In her short career, Casillas has received several honors and has been invited to serve as a member on several review panels for agencies such as the National Science Foundation and the United States Department of Agriculture. She has been the main speaker in several local and international conferences and has published more than 20 scientific publications (two in educational journals) and three book chapters. More recently, she was awarded the 2010 Arturo Carrion Lecture Award from ASM’s Puerto Rican Chapter for her excellence in teaching Microbiology in Puerto Rico. Casillas is already building a legacy through the achievement and values she instills in her students, as well as her overall impact on the Puerto Rican community.

ASM Graduate Microbiology Teaching Award

The winner of the 2012 ASM Graduate Microbiology Teaching Award is **Joanna B. Goldberg**, Ph.D., Professor, Department of Microbiology, Immunology, and Cancer Biology, University of Virginia, and a Fellow of the American Academy of Microbiology. This



Goldberg

award recognizes an individual for distinguished teaching of microbiology and mentoring of students at the graduate and postgraduate levels, and for encouraging students to subse-

quent achievement. “Goldberg is truly deserving of this award,” describes Sara Cassidy of the University of Michigan, a former student of Goldberg’s. “Through years of practice, she has developed an uncanny ability to detect and address the needs of individual students—a quality of mentorship that is difficult to teach.”

Goldberg received her B.A. in Biology from Boston University, and her Ph.D. in Microbiology and Immunology from the University of California, Berkeley. She was a postdoctoral fellow at the University of California, San Francisco, and the University of California, Berkeley. Goldberg then took a faculty position in the Channing Laboratory at the Brigham and Women’s Hospital, Harvard Medical School. She decided that a faculty position at a strictly academic institution might allow her to have a greater impact on teaching and training the next generation of scientists, so she joined the faculty at the University of Virginia as an Associate Professor, where her research program continues to focus on bacterial physiology and pathogenesis.

Goldberg has mentored 13 graduate students in her own laboratory and has formally advised over 75 students throughout her time at UVA. “I have interacted with virtually all of her graduate students at various local meetings,” says nominator Dennis Ohman, her former mentor at Berkeley. “Her students are always enthusiastic and knowledgeable about their research projects, and very eager to share ideas and take suggestions. It is obvious to me that this positive confident attitude comes directly from Goldberg’s approach to science.” Goldberg now directs the Microbial Pathogenesis course and is Graduate Advisor for the Department and for UVA’s Infectious Diseases and Biodefense Training Grants from the NIH. “More than any one individual, Goldberg is responsible for the evolution of the now superb graduate program in Microbial Pathogenesis at UVA, where graduate students and M.D. and Ph.D. Fellows interact with and learn from each other,” adds William Petri, University of Virginia.

Goldberg’s activities and service record reflect her interest and enthusiasm for mentoring and training graduate students and—through this effort—the entire scientific community. She is a member of UVA’s Academy of Distinguished Educators, has chaired numerous local, national, and international meetings, and is an

active volunteer for ASM. She has been a Division Councilor to the National ASM and President of ASM’s Virginia Branch. Currently, Goldberg serves as chair of the ASM Career Development Committee and a member of the ASM Conferences Committee and the Committee on Awards. “Despite her international stature and undeniable intellect, there is never a hint of arrogance in Joanna—actually, just the opposite,” summarizes Petri. “When I picture Joanna in my mind it is of her broadly smiling, with twinkling eyes full of energy and enthusiasm. Graduate students learn science rigorously from her, and just as importantly have a role model for collegiality and mentoring that is second to none. Goldberg is an absolutely spectacular mentor and teacher for graduate students, the epitome of what this award was designed to recognize.”

William A. Hinton Research Training Award

LaJoyce Debro, Ph.D., Professor of Biology, Jacksonville State University, Alabama, is the 2012 William A. Hinton Research Training Award laureate. “For more than 40 years, Debro has been an outstanding educator,” says her nominator, Ellen Neidle from the University of Georgia. This award, given in memory of William A. Hinton—a physician-research scientist and one of the first African-Americans to join the ASM—honors outstanding contributions toward fostering the research training of underrepresented minorities in microbiology. “She has had an impact on hundreds of students,” says Benjie Blair, Jacksonville State University. “She is highly respected for her depth of knowledge and dedication in teaching and research.”

Debro grew up in Clarksdale, Miss., and received her B.A. in Biology from Spelman College. She went on to receive her M.S. from Atlanta University (now Clark-Atlanta), and her Ph.D. in Biology with a concentration in Microbiology from Purdue University. Before working at Jacksonville State University, she instructed at Coahoma Community College in Clarksdale, Miss., Rust College in Holly Springs, Miss., and Miles College in Birmingham, Ala.—all historical black colleges. Debro’s current instructional responsibilities at Jacksonville State University are in general biology, microbiology, genetics, and molecular biology. She is committed to the



Debro

instruction of biology as a process, and engages her students in undergraduate research both through scheduled class laboratories and independent study projects. Recently, Debro joined the Science Education Alliance of the Howard Hughes Medical Institute, and is engaging classes of beginning students in investigations on mycobacteriophage diversity that involve the purification, characterization, and genome analyses of environmental isolates.

Debro views her motivation and dedication to her students as the natural outcome of the special interest her teachers and professors showed in her as a student. It was these teachers and professors who encouraged her to pursue a doctorate in biology. As a result, Debro strives to enhance the educational experiences of her students by showing a personal interest in them and ensuring that they recognize that they have the power to excel beyond their own expectations. She spends countless hours mentoring, motivating, and providing individualized instruction to her students, who then become increasingly independent and responsible for their own learning. “Debro lives in Birmingham and is the first to admit that she chooses to live near her family and drive an hour each way to JSU in order to work with rural students (including many minorities). She has shown more dedication than anyone I can imagine in pursuit of this goal,” says Blair. Debro holds to the tenet that “A child can’t be what a child can’t see,” and works to broaden the vision of her students by extending their campus experiences to include summer research positions at research intensive institutions. She also encourages her students to participate in research conferences, including ASM’s Annual Biomedical Research Conference for Minority Students (ABRCMS).

Debro’s mentoring extends beyond the students under her direct tutelage to include protégés enrolled in Ph.D. programs as well as young professionals working to secure tenure. She had the opportunity to influence lives and careers from a different perspective by serving as a Program Director in Molecular and Cellular Biosciences at the National Science Foundation (NSF) while on a leave of absence from her faculty position (2007–2009). At NSF she was dedicated to promoting research careers and activities for faculty mentors and their students, and was honored with the Director’s Equal Opportunity Achievement Award for her diligence in

developing effective activities to enhance diversity in the reviewers and awardees within her cluster and in the biological sciences overall. Susanne von Bodman, a former colleague from NSF, stated: “I am grateful for her sound and insightful scientific judgment, her collegial and supportive nature, and her ongoing willingness to help with all aspects of the merit review process. Debro is a team player whose efforts to build an inclusive scientific community are impressive, successful, and contagious.”

According to Debro, her proudest professional achievements are not her publications, presentations, awarded grants, or lab experiments. Instead she is proudest of her successes in promoting young maturing scientists whose lives and careers she has influenced. “For her many contributions, Debro richly deserves recognition,” summarizes Neidle.

Raymond W. Sarber Awards

Jeff Chen, undergraduate student at the University of California, Davis, and **Sandeep Kishore, Ph.D.**, currently postdoctoral fellow, Harvard Medical School in the Department of Global Health & Social Medicine, have been awarded the 2012 Raymond W. Sarber Awards. These awards, established in honor of Raymond W. Sarber for his contributions to the growth and advancement of ASM, recognize students for research excellence and potential at both the undergraduate and predoctoral levels.



Chen

Chen’s first research experience took place while taking classes from the Pasadena City College during his high school years. Under the guidance of his environmental science professor Carol Tydell, Chen attempted to track the cause of point source pollution through fecal coliforms. Fascinated by the impact microbes have on entire ecosystems, Chen spent the summer before college working with Maria Appleman of the University of Southern California Keck School of Medicine, where he was involved in starting a clinical study to determine impacts of the gut microbial population in relation to metabolic disorder susceptibility.

Chen entered the University of California, Davis as an environmental toxicology major in order to better understand other scientific areas. However, he continued to work with microbes. During his first few years, Jeff conducted research in Reen Wu's lab, where he worked on a pilot project studying the effects of different immune signaling factors on *Klebsiella pneumoniae* infection in vivo. The following summer, Chen had the opportunity to conduct research in Adrian Ponce's lab at the NASA Jet Propulsion Laboratory through the California Institute of Technology Amgen Scholars Program. His project focused on improving and automating an assay to better detect bacterial endospores for various applications ranging from validating spacecraft sterility to bioterrorism prevention.

Upon returning to the University of California, Davis, Chen joined nominator Neil Hunter's lab. "Chen is very personable, highly reliable and independent, mature, trustworthy, and intelligent," describes Hunter. "He has an excellent work ethic." In Hunter's laboratory, Chen explored the field of yeast genetics, elucidating the role of proteins that promote crossing-over during meiosis. "Chen initially characterized a specific allele of the DNA mismatch-repair factor, Mlh1, in order to determine its mutator phenotype. This involved construction of a variety of yeast strains and standard microbial techniques to perform fluctuation tests," explained Hunter. "His second project was to prepare and characterize numerous BAC clones by pulsed-field gel electrophoresis as a prelude to a sequencing project. More recently, he has been learning cell biology techniques to study chromosome metabolism during meiosis."

Fascinated by the novel methods utilized in the Hunter lab to better detect specific stages of chromosome junction formation, Chen was given an opportunity to innovate by the Harvard Stem Cell Institute Summer Internship Program. Chen worked in Nabeel Bardeesy's laboratory at Massachusetts General Hospital, where he studied a rare subpopulation of pancreatic progenitor cells and established a novel assay for determining the effects of oncogenes and epigenetic factors on cellular plasticity. "He performed at such a high level and showed so much initiative that I gave him an independent project focusing on the characterization of pancreatic progenitor cell populations," explains

Bardeesy. "I soon realized that Chen had the maturity to develop a project on his own, which was remarkable for someone so young. He started a new project to attempt to isolate, culture, and study rare subpopulations of pancreatic cells enriched for the stem cell marker." With the generous Bardos Science Education Award from the American Association for Cancer Research (AACR), he presented his findings at the 2011 AACR annual meeting.

In addition to research, Chen is heavily involved in science education and service. He serves as a biology associate editor for the *Journal of Young Investigators*, an international peer review undergraduate journal. Chen has also contributed to and consulted for the National Science Bowl. His faculty advisor at the University of California, Davis, Michael Denison, says he fully expects Chen to develop into a top-notch researcher. "Chen is an outstanding, intelligent, and highly motivated student who has taken the time and effort to obtain excellent training and research experience." "His commitment, work ethic, and enthusiasm are the highest that I have seen for any undergraduate researcher," summarizes Bardeesy.

Kishore received the Sarber award for his achievements as a predoctoral student in the M.D./Ph.D. program at Weill Cornell Medical College. His nominator, Peter Hotez, founding Dean of the National School of Tropical Medicine at Baylor College of Medicine, was "deeply impressed with his drive and ambition to infuse a sense of social purpose and action in graduate and medical education. Kishore constantly reminds graduate students of the importance of putting a social conscience behind science." Carl Nathan, Weill Cornell Medical College, calls him "a rare individual who is utterly devoted to good causes, singularly effective, everywhere at once, and leaves behind whirlwinds of activity that would otherwise not have stirred but once launched are self-sustaining."

Kishore received his B.S. in Biology from Duke University. He then earned his M.Sc. from the University of Oxford, where he was an Usher Cunningham Scholar in Medical Sciences. While in the laboratory of Kirk Deitsch at Weill Cornell Medical College, he made a fundamental discovery regarding the evolution of the basic transcriptional machinery of malaria parasites—a discovery that helped form the basis of his current research characterizing gene activa-



Kishore

tion in the parasite responsible for malaria (*Plasmodium falciparum*). “Kishore has demonstrated the ability to utilize multiple approaches, including epidemiology, molecular biology, and computational analysis, to advance this project,” says Deitsch. “This type of interdisciplinary approach is truly powerful, and in my opinion, represents the future of microbiology.”

According to Kishore, “one of my top priorities was to develop a trainee pipeline to provide early and thorough exposure to interdisciplinary perspectives in global health. I wanted to attempt to answer the question: How does one integrate basic sciences and public health?” In 2006, Kishore developed and co-taught an elective curriculum at Weill Cornell Medical College that integrated economic, scientific, clinical, and public health perspectives on contemporary issues surrounding malaria. Posted on the Web, this was the first open-source curriculum on neglected diseases, and garnered international attention at a medical education conference in Havana, Cuba in 2008. The course has since evolved into a full-fledged longitudinal, four-year curriculum managed by students and faculty with full administrative support. The elective curriculum now attracts 40% of the Weill Cornell first year medical class and features financial subsidies and support for research, applied public health, or clinical service abroad.

In addition to his outstanding research and classroom accomplishments, Kishore has impressed many with his efforts in global health advocacy and policy. He sensed a large gap between basic scientists and public health practitioners, and wanted to ensure technologies and health innovations were made available in developing countries. To address these concerns, he has made extensive contributions outside of the laboratory. In 2007, Kishore successfully advocated for the inclusion of a cholesterol-lowering statin on the World Health Organization’s Model List of Essential Medicines. He has since petitioned the WHO to include a proton pump inhibitor and a modern beta blocker. In 2009, he served as an invited speaker for the National Academy of Sciences Institute of Medicine (IOM) Board on Global Health for the IOM report “Promoting Cardiovascular Health in the Developing World.” That same year, he founded the Young Professionals’ Chronic Disease Network (YP-CDN), a collection of young leaders under the age of 40 that advocates for

policy change on chronic diseases from the bottom up. These 400 leaders represent 40 countries and over 170 organizations. In 2010, he represented the YP-CDN as a civil society delegate to the United Nations General Assembly.

In addition to the above efforts, Kishore’s health-related work has been featured in the popular press, including *Scientific American*, *The Huffington Post*, and *The Scientist*. He is a coauthor of the forthcoming textbook *Sick Societies*, published by Oxford University Press. His technical writings in public health have appeared in a broad range of journals including *PLoS Medicine*, the *Nature Reviews* series, *Clinical Pharmacology & Therapeutics*, *Globalization & Health*, and *Global Forum for Health Research*. He currently serves on the Board of Directors of the global NGO Universities Allied for Essential Medicines (UAEM). He is the first Lancet Prize winner for community service, and was a recipient of the Paul & Daisy Soros Fellowship for New Americans in 2008.

Scherago-Rubin Award

Brent Barrett, Indiana State Department of Health, is the 2012 Scherago-Rubin Award laureate. This award, presented for over 20 years, recognizes an outstanding bench-level clinical microbiologist. It was established by the late Sally Jo Rubin in honor of her grandfather, Professor



Barrett

Morris Scherago. “Barrett personifies the best of clinical microbiology,” states his nominator, Judith Lovchik, Indiana State Department of Health Laboratory and Diplomate of the American Board of Medical Microbiology (ABMM). “His intense focus on clinical microbiology has no parallel.”

Barrett received his B.S. in microbiology from Purdue University in 1976 and his American Society for Clinical Pathology (ASCP) certification in 1980. Barrett worked as a medical microbiologist at Community Hospital in Indianapolis, Indiana from 1976 to 1980, then again part-time from 1982 to 1995. In 1996 he began part-time work as a microbiologist at Mid America Clinical Laboratories, which he contin-

ues today. His full-time position, which he has held since 1980, is microbiologist at the Indiana State Department of Health in Indianapolis. "Barrett is first and foremost a medical technologist, who for many years has worked in the enteric and parasitic diagnostic laboratory at the Indiana State Department of Health," explains James Snyder, University of Louisville Hospital, and ABMM Diplomate. "With his leadership, this laboratory gained national recognition as one of the few public health laboratories that practices state-of-the-art diagnostics and serves as a major source of information regarding epidemiology and continuing education."

"During his many years as a bench-level clinical microbiologist, Barrett has done more for the continuing education of bench-level clinical microbiology technologists than anyone I have known," explains Larry Gray, Bethesda and Good Samaritan Hospitals, Cincinnati, and ABMM Diplomate. A ProMED-mail Rapporteur, he was presented in 2007 with the ProMED-mail Award for Excellence in Outbreak Reporting on the Internet. He is actively involved in parasitology case studies and workshops for the ASM and the South Central Association for Clinical Microbiology (SCACM), ASM and ASCP audio-conferences on parasitology and Shiga toxin-producing *E. coli*, and SCACM's Interest Group sessions on enteric bacteria and parasitology. Barrett has also been an active participant in ASM activities. He currently serves as Division C listserv comoderator, an Askit Expert, and a member of the Clinical Microbiology Portal Committee.

In addition to his other duties, Barrett has been a member of SCACM since 1978 and has served the organization in several elected and appointed positions, including Treasurer, President, Director at Large, Internet Resources Chairman, and Audioconference Chairman. "Barrett's enthusiasm for, love of, and dedication to bench-level clinical microbiology are major reasons SCACM is and continues to be the oldest, largest, and most active clinical microbiology organization in the world," says Gray. In 2006, Barrett was named SCACM's Outstanding Contributor to Clinical Microbiology for his contributions.

Barrett is an excellent instructor who freely shares his expertise and enthusiasm. A highly requested speaker, he frequently presents case studies in parasitology and other enteric dis-

eases. "Barrett's attributes and contributions to diagnostics and continuing education are exceptional and place him in a class of his own. He is truly the consummate medical microbiologist," summarizes Snyder.

TREK Diagnostic ABMM/ABMLI Professional Recognition Award

L. Barth Reller, M.D., Professor of Medicine and Pathology, Duke University School of Medicine, and Fellow of the American Academy of Microbiology, has been honored with the 2012 TREK Diagnostic ABMM/ABMLI Professional Recognition Award. This award recognizes a Diplomate of the American Board of Medical Microbiology (ABMM) or the American Board of Medical Laboratory Immunology (ABMLI) for outstanding contributions to the professional recognition of certified microbiologists and immunologists and the work that they do. Reller was nominated by Lizzie Harrell, also of Duke University. "Reller has made significant contributions to the advancement and public recognition of the profession of clinical microbiology through his numerous publications, worldwide lectures, mentoring and training of clinical microbiologists at all levels, and long-term service to numerous scientific organizations," describes Harrell. "He is a strong advocate for evidence-based clinical microbiology, excellent training, and certification of clinical microbiologists at all levels."

Reller received his M.D. from the University of Virginia School of Medicine. He then completed an Internal Medicine residency and fellowships in Infectious Diseases and Clinical Microbiology at the University of Washington before continuing on to receive his Diploma in Tropical Medicine and Hygiene from the University of Liverpool. Reller next served as an Epidemic Intelligence Service Officer at the Centers for Disease Control in Atlanta, Ga., before becoming the Director of Clinical Microbiology at the University of Colorado Health Sciences Center, followed by Professor of Medicine and Microbiology and Immunology at the University of Colorado School of Medicine. In 1988, Reller joined the faculty of the Duke University School of Medicine as Professor of Medicine and Pathology, where his research interests include bacteremia, enteric bacteriology, and parasitic diseases. He was also Director of Clinical



Reller

Microbiology at Duke University Medical Center from his hiring in 1988 through 2011.

Many honors, certifications, and service contributions support Reller's reputation as a leader in the field of clinical microbiology. Reller is board-certified in Internal Medicine and Infectious Diseases by the American Board of Internal Medicine, and in Medical Microbiology by the American Board of Pathology and the ABMM. He is also a Fellow of the American College of Physicians, the Infectious Diseases Society of America, and the Royal Society of Tropical Medicine and Hygiene. Reller serves as Special Section Co-Editor for Medical Microbiology for the Infectious Diseases Society of America's journal *Clinical Infectious Diseases*, and the Past Chairman of the Anti-infective Advisory Committee of the United States Food and Drug Administration (FDA). He is now a consultant to this committee, and also to the FDA's Medical Microbiology Devices Advisory Committee.

"Reller has diligently supported and guided the efforts of CLSI, CDC, FDA Anti-infective and Microbiology Devices panels, editorial boards, and professional committees, all of

which impact medical microbiology," says Michael Wilson, Denver Health and University of Colorado. "I believe Reller to be one of the best medical microbiologists; an individual who brings distinguished credit to himself, the ABMM, and our profession. I know of no other individual who has been more effective at promoting the profession of medical microbiology."

In addition to his various contributions to the field, Reller has mentored and trained 38 Medical Microbiology Fellows who now serve in leadership positions in the United States and six other countries. He strongly encourages those he mentors to become board-certified, remain active in the field, and be stewards of the profession. "As an early trainee under Reller's tutelage, I can attest to his generous and supportive mentorship. Over many years he has given his time and ideas to his trainees, then guided them toward completion of work for which they receive primary credit but which could not be accomplished without his critical thought and guidance. His keen intellect, encyclopedic knowledge, and common sense approach make him truly deserving of this award," says Melvin Weinstein of Robert Wood Johnson Medical School.

ASM Report

2012 Division Officers (terms begin 1 July 2012)

Division	Chair	Chair-Elect
A Antimicrobial Chemotherapy	Jeffrey D. Alder Bayer Healthcare Pharmaceuticals Inc. Montville, NJ	Keith P. Klugman Emory University Atlanta, GA
B Microbial Pathogens	Nicholas P. Cianciotto Northwestern University Medical School Chicago, IL	Steven R. Blanke University of Illinois Urbana, IL
C Clinical Microbiology	Sheldon Campbell Yale University School of Medicine West Haven, CT	Susan Sharp Kaiser Permanente, NW Portland, OR
D Microbe-Host Interactions	Marvin Whiteley The University of Texas Austin, TX	Olaf Schneewind The University of Chicago Chicago, IL
E Immunology	Maya Saleh McGill Life Sciences Complex Montreal, Quebec, Canada	David Mosser University of Maryland College Park, MD
F Medical Mycology	John R. Perfect Duke University Medical Center Durham, NC	Maurizio Del Poeta Medical University of South Carolina Charleston, SC
G Mycoplasmology	John Glass J. Craig Venter Institute Rockville, MD	Chris Minion Iowa State University Ames, IA
H Genetics & Molecular Biology	Sidney Kushner University of Georgia Athens, GA	Joseph E. Peters Cornell University Ithaca, NY
I General Microbiology	Joerg Graf University of Connecticut Storrs, CT	Eric V. Stabb University of Georgia Athens, GA
J Cell and Structural Biology	Daniel Kearns Indiana University Bloomington, IN	Briana Burton Harvard University Cambridge, MA
K Microbial Physiology & Metabolism	Tyrrell Conway University of Oklahoma Norman, OK	Jared R. Leadbetter California Institute of Technology Pasadena, CA
L Healthcare Epidemiology	Connie Price University of Colorado Denver, CO	Tom Talbot Vanderbilt University Medical Center Nashville, TN
M Bacteriophage	Carlos E. Catalano University of Washington Seattle, WA	Louise Temple James Madison University Harrisonburg, VA
N Microbial Ecology	Karsten Zengler University of California-San Diego La Jolla, CA	K. Eric Wommack University of Delaware Newark, DE
O Fermentation & Biotechnology	George M. Garrity Michigan State University East Lansing, MI	Badal C. Saha USDA-ARS Peoria, IL
P Food Microbiology	Francisco Diez-Gonzalez University of Minnesota St. Paul, MN	Pina M. Fratamico USDA-ARS Wyndmoor, PA

2012 Division Officers (Continued)

Division	Chair	Chair-Elect
Q Environmental & General Applied Microbiology	Jill Stewart University of North Carolina Chapel Hill, NC	Donna Fennell Rutgers, The State University of New Jersey New Brunswick, NJ
R Evolutionary & Genomic Microbiology	Rachel J. Whitaker University of Illinois Urbana, IL	Jennifer Gardy British Columbia Centre for Disease Control Vancouver, Canada
S DNA Viruses	Lindsey Hutt-Fletcher Louisiana State University Shreveport, LA	Katherine Spindler University of Michigan Medical School Ann Arbor, MI
T RNA Viruses	Leslie J. Parent Pennsylvania State University College of Medicine Hershey, PA	Kim Y. Green National Institute of Allergy and Infectious Diseases Bethesda, MD
U Mycobacteriology	Sabine Ehrt Weill Cornell Medical College New York, NY	Kathleen McDonough David Axelrod Institute Albany, NY
V Clinical & Diagnostic Immunology	Moon H. Nahm University of Alabama Birmingham, AL	Nahed Ismail University of Pittsburgh Pittsburgh, PA
W Microbiology Education	Robert W. Bauman Amarillo College Amarillo, TX	Laurie F. Caslake Lafayette College Easton, PA
X Molecular, Cellular & General Biology of Eukaryotes	George F. Sprague, Jr. University of Oregon Eugene, OR	N. Louise Glass University of California Berkeley, CA
Y Public Health	Denise (Dee) A. Pettit Virginia State Public Health Laboratory Richmond, VA	Joanne Bartkus Minnesota Department of Health Saint Paul, MN
Z Animal Health	Shawn Bearson US Department of Agriculture Ames, IA	Paul Plummer Iowa State University Ames, IA
AA Free-Living, Symbiotic and Parasitic Protists	Peter J. Myler Seattle Biomedical Research Institute Seattle, WA	Gustavo Arrizabalaga University of Idaho Moscow, ID

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Suzanne Fleiszig
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Yvonne Salfinger
Florida Department of Agriculture, Tallahassee

Journals

2011 Jack Kenney Award for Outstanding Service

Peter Zuber was chosen by the Editors of the *Journal of Bacteriology* as this year's recipient of the Jack Kenney Award for Outstanding Service on the Editorial Board. This award is named to honor the gifted Production Editor who served the journal for many years. On average, Peter has reviewed more than three manuscripts a month, with a turnaround time of 12 days. More about this award and the full citations can be found at <http://jb.asm.org/content/194/1/2.full.pdf>.

Education Board

ASM Represented at National Student and Educator Meetings in Fall 2011

The strategic directions of the ASM Education Board include collaborating with national organizations to promote biology education at all levels. In fall 2011, the Board sponsored the Society's participation in the following conferences for science students and educators.

NABT Annual Meeting. Education staff member Kelly Gull and Committee for K-12 Outreach chair Dave Westenberg represented the society at the National Association of Biology Teachers Annual Meeting (NABT) held 12–15 October in Anaheim, Calif. During the event, ASM sponsored a booth and a full day of workshops under the theme “ASM Goes Viral at NABT!” The workshops included “Studying Viral Pathogenesis: from the Lab to the Web,” “The Role of Viruses in the Origin and Evolution of Life,” and “Phage Discovery—a Platform for Integrating Research and Student Learning,” which were presented by Society members Dave Wessner (Davidson College), Luis P. Villarreal (University of California, Irvine), and Erin R. Sanders (University of California, Los Angeles), respectively.

Compact Annual Institute on Teaching and Mentoring. The 18th Annual Institute on Teaching and Mentoring was held 20–23 October in Atlanta, Ga. The Compact for Faculty Diversity spon-

sors the four-day, invitation-only institute, which seeks to provide minority scholars with the strategies necessary to survive the rigors of graduate school, earn doctoral degrees, and succeed as members of the professoriate. The Education Board sponsored a display of materials about ASM faculty and student resources for the event.

Thinking Evolutionarily Conference. Education director Amy Chang and International Microbiology Education Committee chair Spencer Benson attended the Thinking Evolutionarily: Evolution Across the Life Sciences Conference held 25–26 October in Washington, D.C. The event, convened by the National Academies, brought together 300 leaders from colleges and universities, K-12 schools, professional societies, government agencies, and foundations to address the need for a comprehensive strategy to incorporate evolution as a central theme in biology teaching. Chang was a presenter on the panel “Next Steps: Potential Roles of Key Players,” and Benson participated in the panel “Expanding Curricular Opportunities to Introduce Evolutionary Thinking Across the Grades.”

POD Network Annual Meeting. Alix Darden, University of Oklahoma Health Sciences Center and member of the ASM Committee on Undergraduate Education, took part in the Annual Meeting of the Professional and Organizational Development (POD) Network in Higher Education held 26–30 October in Atlanta, Ga. The POD Network encourages ongoing enhancement of teaching and learning through faculty and organizational development. Darden presented the poster “Leveraging Professional Society Resources to Catalyze SoTL Conversations on Campuses” about the ASM Biology Scholars Program and volunteered at the ASM resource table to promote the program.

SACNAS. Education staff members Tiffani Fonseca and Irene Hulede attended the 2011 Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference held 27–30 October in San Jose, Calif. Conference programs featured career advancement workshops, scientific symposia, exhibits, student research pre-

sentations, and speakers designed to provide the resources that Chicano/Latino and Native American students need to pursue advanced degrees in the sciences. During the exhibits program, Fonseca shared information about ASM Education Board resources and student programs.

ABRCMS 2011 Develops Next-Generation Scientists and Honors Their Research Efforts

“I could not have thought of anywhere better to be on November 9–12, 2011,” says an undergraduate attendee of the 11th Annual Biomedical Research Conference for Minority Students (ABRCMS) held in St. Louis, Mo. This comment, made just after conference, reflects the excitement for research that many students took home after attending the event. ABRCMS, the largest professional conference of its kind in the nation, is designed to encourage underrepresented minority students to pursue advanced training in the biomedical and behavioral sciences, including mathematics; it also provides faculty with resources for facilitating student success.

With more than 3,300 people in attendance, this year's conference shattered its previous participation records. Attendees included approximately 2,100 students, 750 faculty and program directors, and 500 recruiters for graduate and summer research programs.

Every ABRCMS provides an excellent opportunity to exchange, explore, and share information. Under the theme “Increasing Diversity to Improve Global Scientific Competitiveness,” participants of the 2011 conference took advantage of numerous information-rich scientific sessions, research skills training events, professional development workshops, networking events, student poster and oral presentations, and talks by leaders in research and education. Highlights included:

- Keynote speeches by National Science Foundation Director Cora Marrett and Bennett College President Julianne Malveaux.
- Plenary lectures by Howard Hughes Medical Institute (HHMI) investigator

Alejandro Sanchez Alvarado, a neurobiologist at the Stowers Institute for Medical Research; renowned physicist Sylvester James Gates, Jr., a member of President Obama's Council of Advisors on Science and Technology (PCAST) and a professor at the University of Maryland, College Park; and HHMI investigator and Whitehead Institute member Susan Lindquist, a biology professor at the Massachusetts Institute of Technology.

- Information available from more than 400 college, university, government agency, foundation, or professional society representatives about graduate programs, research opportunities, funding sources, and professional networks.

At the closing banquet, 215 undergraduate and postbaccalaureate students received awards of \$250 each for outstanding research presentations. In addition, 41 awards were presented to recognize students for their abilities in demonstrating evidence of interdisciplinary research.

In the 2011 postconference survey, 95% of ABRCMS undergraduate respondents indicated that they would recommend the conference to their peers. "I'm leaving [ABRCMS] knowing that the sky is not my limit but my footstool," said one survey participant. "I can achieve anything knowing that it's not going to be an easy road, but at the end, I will be able to serve my community [and use] my M.D./Ph.D. degree for a worthy and selfless purpose."

ABRCMS is managed by ASM and supported by a grant from the Minority Opportunities in Research Division of the National Institute of General Medical Sciences at the National Institutes of Health. For more information about the conference, please visit www.abrcms.org.

Professional Development Opportunities for Faculty and Students

Education Board programs support student and faculty development through numerous fellowships, conferences, institutes, and workshops. Please share the following program opportunities with

your students and colleagues in the microbiological sciences.

Faculty

Biology Scholars Program Research Residency. The Research Residency of the 2012 Biology Scholars Program seeks biology educators who have been trained in effective teaching strategies and are asking questions about how and why students learn in their classrooms. Research Residency Scholars learn how to design research projects that investigate student learning; understand methods for collecting, analyzing, and interpreting surveys and data on student learning outcomes; and identify the best venues for publishing study results. The 2012 residency, supported by the National Science Foundation and managed by ASM, kicks off with the Scholarship of Teaching and Learning Institute on 25–28 July in Washington, D.C. Apply by 1 March. Travel grants are available. See <http://www.biology-scholars.org> for details.

Students

ASM Kadner Institute. The ASM Committee on Graduate and Postdoctoral Education invites senior-level graduate students and early-career postdoctoral scientists to apply for the 2012 ASM Kadner Institute for Graduate Students and Postdoctoral Scientists in Preparation for Careers in Microbiology. The Kadner Institute, which is sponsored by the National Institute of Allergy and Infectious Diseases and the Burroughs Wellcome Fund, will be held on 21–25 July at Michigan State University. Institute participants receive careful guidance and mentoring in key topics important for choosing and succeeding in microbiology careers: (i) career opportunities and preparation; (ii) preparation, review, and critique of research proposals; (iii) scientific presentations and communication; (iv) effective teaching methods; and (v) professional standards development. The application deadline is 15 May 2012. Learn more at <http://www.asmgap.org>.

ASM Robert D. Watkins Graduate Research Fellowship. The ASM Committee on Minority Education invites senior-level graduate students to apply for the

2012 ASM Robert D. Watkins Graduate Research Fellowship. The Watkins fellowship seeks to increase the number of students from underrepresented minority groups who complete doctoral degrees and provides students with support to complete and present their microbiological-sciences-based research. Watkins fellows attend the ASM Kadner Institute for Graduate Students and Postdoctoral Scientists in Preparation for Careers in Microbiology (see above) or the ASM Scientific Writing and Publishing Institute (<http://www.asmgap.org/swpi>) and, dependent on abstract submission and acceptance, are supported to present their research at the ASM General Meeting. Interested students should apply by 1 May 2012. Learn more at <http://www.asmgap.org/watkins>.

International Affairs

ASM LabCap: Advancing Laboratory Capacity Globally

ASM's Global Laboratory Strengthening Program, or LabCap, made gains this month in both South Asia and Africa, with a series of in-depth microbiology mentoring efforts designed to instill long-term viability of public health systems in resource constrained environments. In Africa, LabCap deepened its partnership with the African Centre for Integrated Laboratory Training (ACILT) located in Johannesburg, with a series of *Mycobacterium tuberculosis* (TB) courses on culture, identification, and drug susceptibility testing. LabCap mentor Thor Elliot joined ACILT experts to implement the two-week course for clinicians representing laboratories from Mozambique, Ghana, Zambia, Ethiopia, Botswana, and Southern Sudan. Course content covered a wide array of topics such as principles of DST, Biosafety, MGIT, Line Probe Assays as well as general problem solving. This event is part of a broader effort with ACILT, with six more LabCap trainings scheduled in 2012.

LabCap engagement in Southeast Asia has focused initially in Vietnam, where ASM recently held a two-week Mycology Training Workshop at the National Institute of Dermatology and Venereol-

ogy (NHDV) in Hanoi. The LabCap team included Vlademir Cantarelli, Jeni Vuong, and Victor Silva, who led theoretical classes as well as practical activities in the mycology laboratory. The interactive program covered important basic concepts, including direct detection of fungi, fungal culture and isolation, yeast and mold identification and susceptibility tests, as well as new procedures and the latest diagnostics techniques. "We are very pleased that the activity at NHDV has been a complete success," says CDC Program Officer Humberto Carvalho. "We have had members from different hospitals asking us if they can have the same type of support and also if the Mycology training can be expanded to other places." LabCap Engagement in South East Asia is only beginning, with Indonesia, Malaysia, and possibly Myanmar on the horizon for 2012.

To learn more about ASM International Affairs and the LabCap Program visit www.asm.org.

2012 ASM International Affairs Fellowship and Professorship Recipients

The ASM International Education Committee (IEC) is pleased to announce the winners of Round One of the 2012 ASM International Fellowships and Professorships. These programs strive to put the IEC's Strategic Plan into action by providing high-quality education and training programs to microbiologists and institutions at all levels, fostering the professional development of international microbiologists, and promoting excellence in the microbiological sciences through scholarly exchange. To learn more about how to apply for these programs, please visit: www.asm.org/international/grants.

ASM International Fellowships

The International Fellowship Program encourages research and training collaborations in microbiological sciences worldwide by enabling early-career scientists or students from resource-limited countries to visit the host laboratories of

experienced ASM members. The International Fellows for Round One, 2012 are:

Sunday Babatunde

Akide, a lecturer at the Osun State University, Osogbo, Nigeria, was awarded an ASM International Fellowship for Africa to pursue the research project "Molecular characterization of hydrocarbon-utilizing heterotrophic bacteria from crude oil-polluted sites in the Niger Delta, Nigeria" with Joseph Sulfita at The University of Oklahoma, Norman.



Akide

Yulia Evgen'evna Spitsyna

a Ph.D. student at the Institute of Chemical Biology and Fundamental Medicine, Siberian Branch of Russian Academy of Science, Novosibirsk, was awarded an ASM International Fellowship for Asia to pursue the research project "Characterization of the cellular response to gold nanoparticles using immunofluorescence analysis and live-cell imaging" with Elke Muhlberger at the Boston University, Mass.



Spitsyna

Andrea Pedetta

a Ph.D. student at the Instituto de Investigaciones Biológicas, Mar del Plata, Argentina, was awarded an ASM International Fellowship for Latin America and the Caribbean to pursue the research project "Signaling abilities of mutant chemotaxis proteins" with John Parkinson at the University of Utah, Salt Lake City.



Pedetta

Nicolas Alberto Villagra, Ph.D. candidate at the Universidad Andres Bello,

Santiago, Chile, was awarded an ASM International Fellowship for Latin America and the Caribbean to pursue the research project "Iron sparing by RyhB small RNA in *Salmonella*: a search for the players" with Nara Figueroa-Bossi at the Centre de Génétique Moléculaire of the CNRS in Gif-sur-Yvette, France.



Villagra

Honorable Mentions

Honorable Mentions are given to select applications which the Review Committees felt merited special recognition; funding is not associated with an Honorable Mention. The 2012, round one, Honorable Mention recipients are:

Enas Abdulstar

Newire, a Medical Molecular Researcher at the US. NAMRU-3 Global Disease Detection Response Program, Giza, Egypt, was recognized with an Honorable Mention for her proposed research project "Advanced molecular characterization of ESBL-producing *Enterobacteriaceae* in Egypt; metallo- β -lactamases detection and interpretation" with host Neil Woodford at the Health Protection Agency in London, United Kingdom.



Newire

Olajide Adewale

Owolodun, Principal Research Officer at the National Veterinary Research Institute, Vom, Nigeria, was recognized with an Honorable Mention for his proposed research project "Molecular epidemiology of hepatitis E virus and enteric caliciviruses in pigs, North-Central Nigeria" with Julie Ann Kase at the United States Food and Drug Administration, Centre for



Owolodun

Food Safety and Applied Nutrition, College Park, Md.

ASM International Professorships

The International Professorship Program provides microbiological expertise to faculty and students throughout the world. The program enables an ASM member who is scientifically recognized in his/her area to travel to an institution of higher learning in a resource-limited country to teach an interactive short course on a topic in any of the microbiological disciplines. The International Professors for Round One of 2012 are:

Michele Kiyoko Nishiguchi, a Professor and Associate Department Head at the New Mexico State University, Las Cruces, was awarded an ASM International Professorship for Asia to implement the short course “A short course in microbial genetics for microbial ecologists” with Evelyn Grace Ayson at the Southeast Asian Fisheries Development Center and University of the Philippines, Visayas.



Nishiguchi

Maria José Figueras, a Professor at the Rovira i Virgili University, Reus, Spain, was awarded an ASM International Professorship for Latin America and the Caribbean to implement the short course “Training course in poliphasic taxonomy applied to the bacterial diagnostics” with Heriberto Fernández at the Institute of Clinical Microbiology, Universidad Austral de Chile, Valdivia.



Figueras

Karl Klose, a Professor at the University of Texas, San Antonio, was awarded an ASM International Professorship for Latin America and the Caribbean to implement the short course “Short course on bacterial ge-

netics” with Sergio Marshall at the Pontificia Universidad Católica de Valparaíso, Chile.

Indo-U.S. Professorships in Microbiology

This Professorship Program encourages scientific partnerships between the United States and India and is sponsored by the Indo-U.S. Science & Technology Forum.

Nisha Tak, a Senior Research Fellow at the Jai Narain Vyas University, Jodhpur, India, was awarded an ASM-IUSSTF Indo-US Research Professorship to implement the research project “Use of green fluorescent protein (GFP) labeled strains to determine the nodule occupancy and symbiotic promiscuity of novel species of *Rhizobium* and *Burkholderia* nodulating native legumes of Indian Thar Desert” with Ann Hirsch at the University of California, Los Angeles.



Klose



Tak

Louise Temple, a Professor at the James Madison University, Harrisonburg, Va., was awarded an ASM-IUSSTF Indo-US Teaching Professorship to implement the short course “Discovery and genomic analysis of viruses from the soil that infect non-pathogenic *Mycobacterium* bacteria: original science for university students and faculty” with Jogender Rana at the Deenbandhu Chhau Ram University of Science & Technology in Sonapat, Haryana, India.



Temple

Membership

Award

Vincent Racaniello, host of three ASM podcasts and an ASM Communications Com-

mittee member, was awarded the 2012 Peter Wildy Prize for Microbiology Education by the Society for General Microbiology. The award recognizes outstanding contributions to microbiology education. Racaniello received the prize in recognition of his extensive work in developing podcasts and social media as tools for virology and microbiology education. He was also invited to give a lecture at the Society for General Microbiology Spring Conference in Dublin, Ireland, highlighting a personal overview of a chosen area of microbiology.

Racaniello is a Professor of Microbiology at Columbia University Medical Center. He has been studying viruses for over 30 years, starting in 1975, when he entered the Ph.D. program in Biomedical Sciences at Mt. Sinai School of Medicine of the City University of New York. In 1982 Vincent joined the faculty in the Department of Microbiology at Columbia University College of Physicians & Surgeons in New York City. There he established a laboratory to study viruses and to train other scientists to become virologists. Over the years his laboratory has studied a variety of viruses, including poliovirus, echovirus, enterovirus 70, rhinovirus, and hepatitis C virus.

Racaniello’s public education work includes hosting the popular podcasts *This Week in Microbiology* (www.microbeworld.org/twim), *This Week in Virology* (www.microbeworld.org/twiv), and *This Week in Parasitism* (www.microbeworld.org/twip). He is also at the forefront of recording and sharing his lectures at Columbia University as freely available podcasts and is one of the cocreators of BioCrowd, a social network designed to bring together scientists of all disciplines.

Deceased Members

Eva Ruth Kashket died 21 May 2011 in her home in Lexington, Mass. Kashket was born in Zagreb, Yugoslavia, was a holocaust survivor and emigrated after World War II with her parents to Montreal, Canada, where she was educated and was awarded a B.Sc. and M.Sc. in biochemistry by



Kashket

McGill University, Montreal, Quebec, Canada. She and her husband moved to Boston, Mass., where she obtained her Ph.D. in bacteriology from Harvard University, Cambridge, Mass., in 1963. She was a postdoctoral fellow at Tufts University in Boston and a researcher at Harvard before joining the faculty at Boston University in 1974 as Associate Professor and then Professor in the Department of Microbiology, from which she retired in 2004.

Her major research interests were bacterial bioenergetics, nutrient transport, pH regulation, and osmoregulation. Her studies contributed significantly to the demonstration of the protonmotive force that exists across cell membranes supporting the chemiosmotic theory in cell biology. In later research, her focus turned to the regulation of solvent production, spore development, and strain degeneration in solvent-forming species of the anaerobe *Clostridium*. Research was aimed at the potential development of new bacterial strains for the production of useful chemicals from waste agricultural and industrial biomass and for the development of novel therapeutic agents.

Kashket served on many scientific review panels for the National Science Foundation, the National Institutes of Health, the U.S. Department of Agriculture, the U.S. Department of Energy, the National Research Council of Canada, and others. She was a member of the Editorial Board of the *Journal of Bacteriology* and of *Applied and Environmental Microbiology* and *Anaerobe* and served as a reviewer for the *Journal of Bacteriology*, *Applied and Environmental Microbiology*, the *Canadian Journal of Microbiology*, the *Journal of Biological Chemistry*, the *Journal of Membrane Biology*, *Science*, and others.

Kashket was a founding member of the ASM Committee on the Status of Women Microbiologists (1973–1980) as well as Convener of scientific sessions at ASM Annual Meetings (1977–2000) and chair of the Microbial Physiology and Metabolism Division of ASM (1984–1985) and served in numerous other roles in ASM and other scientific associations. She was one of the organizers of the first rigorously controlled, quantita-

tive survey of the issues facing women in science. The survey was distributed to ASM members and documented the differentials in salary and rank adversely affecting female microbiologists, and reached a wider audience than ever before through an article that was published in *Science* (183:488–494, 1974), with her as first author. She was awarded the Alice C. Evans Award by ASM in 2003 for fostering the inclusion, development, and excellence of women in careers in microbiology.

After retirement, Eva studied painting. She joined the Lexington Arts and Crafts Society where she was elected Chair of the Painters' Guild, and continued to paint until shortly before her death. Eva published two books, a memoir of her years in the Holocaust (*What I Remember: A Memoir of My Family During the Holocaust Years and After*) and a collection of her artwork (*My Paintings*). She is survived by her husband of 53 years, Shelby Kashket; son Michael Kashket; daughter, Julie Mackley; and grandchildren, Rebecca, Michael, and Toby.

James W. Moulder was born in Burgin, Mercer County, Ky., on 28 March 1921. He passed away on 6 May 2011 in Vernon Hills, Ill., at the age of 90. Jim graduated from high school in Bowling Green, Ky. at the age of 15 years. As an undergraduate, he first went for two years at Western Kentucky University and continued his education at the University of Chicago, where he was a Phi Beta Kappa while earning his B.A. degree in 1941. Moulder was a microbiologist at the University of Chicago for over 40 years, beginning after he finished his doctorate in Biochemistry in 1944. Moulder joined the faculty at the University of Chicago in 1948 in Microbiology. From 1959 to 1968, Professor Moulder served as the chairman of the Department of Microbiology. Later he was a member of Department of Molecular Genetics and Cell Biology. He was a member of this department until 1986 when he retired. He was honored by being appointed as Professor Emeritus of the department.

Moulder performed groundbreaking research on many bacterial and parasitic diseases. His chief research interests were in the biochemistry of intracellular

pathogens, with major contributions in the field of *Chlamydia* pathogenesis. His classic 1962 monograph, "The Biochemistry of Intracellular Parasitism," dealt with the commonalities of intracellular viral, parasite and bacterial (*Chlamydia*—then termed psittacosis—pneumonitis group and the *Rickettsia*) pathogens to successfully occupy this *in vivo* niche. His early research provided convincing evidence that the agents of psittacosis and pneumonitis were bacteria and not viruses. However, it took over 10 years before medical microbiology texts ceased to list *Chlamydia* and *Rickettsia* as viruses.

During his long career, Professor Moulder was a Guggenheim Foundation fellow and a senior Fulbright scholar at the University of Oxford from 1952 to 1953. He received the Eli Lilly Award in Bacteriology and Immunology in 1954 and was a Burroughs-Wellcome Visiting Professor of Microbiology at Western Kentucky University in 1984. He was a trustee of the Bergy's Manual Trust since 1981. He received the Bergey's Medal in 1999 for his lifelong contributions to the field of microbiology, including research that led to crucial advances in the prevention and treatment of yellow fever, malaria, and *Chlamydia*. Moulder was an elected Honorary Member of both ASM and the American Society for Rickettsiology and Rickettsial Diseases in 1997. He was the Editor of the *Journal of Infectious Diseases* from 1957 until 1968.

When he retired in 1986, Moulder and his wife Della moved to Tucson, Ariz. He was appointed as a Visiting Scientist in the Department of Microbiology and Immunology at the University of Arizona College of Medicine, where he had very active and productive interactions with faculty member Richard Friedman and in the laboratory with his graduate students and postdoctoral fellows. He published his third monograph, "Intracellular Parasitism," in 1989 and continued to write research manuscripts and review articles.

Moulder was warmly regarded by his legions of doctoral advisees, students, and postdoctoral fellows, many of whom continued to correspond with and visit him long after graduating from the


university. He mentored and gave wise and learned counsel to more than 30 Ph.D. students. He returned to the Chicago area in 2004, to live closer to his daughter, Susan, and his son, John, and families. Surviving are his children, John Moulder (Joan Dimow) of Milwaukee and Susan (Scott) Perlman of Libertyville; five grandchildren, Brian Hub-

bell, David Kopsa, Benjamin, Mary "Becky" and Laura Perlman. He was preceded in death by his wife "Della" Moulder and his daughters, Linda and Carol.

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University of Arizona College of Medicine,
Tucson

Roy Curtiss III
Biodesign Institute, Arizona State
University, Tempe

Steven Zeichner
The George Washington University School
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