POSTDOCTORATE PREPARATION INSTITUTE

Career Transitions and Preparation

Washington Convention Center • Washington, DC • April 27-28, 2007
Dear Participants:

On behalf of the Federation of American Societies for Experimental Biology (FASEB) Career Resources/Minority Access to Research Careers (MARC) Program and the National Postdoctoral Association (NPA), it is our pleasure to welcome you to the first Experimental Biology (EB) Postdoctoral Preparation Institute. We are extremely grateful that you have decided to attend and have put together an exciting program featuring leaders in scientific policy and experts in professional development as well as outstanding researchers, educators and administrators from a variety of organizations.

The vision for the Institute came from the apparent need for enhanced professional development of early-career scientists, which includes graduate students, postdoctoral fellows, and junior faculty. Both the FASEB Career Resources/MARC Program and the NPA have a history of providing valuable information that is significant to the development of a thriving scientific career. Therefore, the partnership formed between these two groups seemed ideal to ensure the most successful event. It is our hope that this program will encourage you to consider your next professional steps well in advance of transitioning to a new level in your career and will help you to avoid some of the more common mistakes of many early-career scientists.

You have many opportunities to consider and we hope that you will find here the resources and guidance for a successful, prosperous career. We are especially enthusiastic about the range of session topics — from career path decisions to lab conflict resolution and cultural competency. We want to do everything possible to equip you with the most appropriate information to make knowledgeable decisions about your future.

The Committee would also like to thank the many supporters of this endeavor, especially the Burroughs Wellcome Foundation, Dr. Guy Fogleman, and the leadership of FASEB’s constituent societies.

We encourage you to ask questions and network but most importantly, please enjoy this first EB Postdoctoral Preparation Institute!
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<td>9:05am-9:25am</td>
<td>Presentation: Thinking About Your Next Steps</td>
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**FRIDAY – APRIL 27TH (continued)**  Room 150-151

12:00pm-1:30pm  **Government**
- **ADMINISTRATION:** Michelle Jones-London, Guy Fogleman, Shawn Drew
- **RESEARCH:** Charles Egwuagu, Darryl Murray, Daniela Verthelyi
- **NONPROFITS:** Crispin Taylor, Joann Boughman, Daniel Wubah, Alyson Reed

1:30pm-1:35pm  **Introduction of Academia**
**Breakout Sessions and Closing Remarks**
Jayne Reuben

1:35pm-3:00pm  **Breakout Sessions** (Panel Discussions)
- **GROUP 1 — SENIOR GRADUATE STUDENTS; JUNIOR POSTDOCS:** Christina Lewis, Andrew Green, Cynthia Fuhrmann, Cherie Butts
- **GROUP 2 — SENIOR POSTDOCS/NEW FACULTY:** Avery August, Bill Lindstaedt, Clifford Mintz, Laurel Haak, Jayne Reuben

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**SATURDAY – APRIL 28TH**  Room 151

**Postdoc Preparation Institute: Leadership in the Lab—Increasing the Research Productivity of Your Team**

9:00am-9:15am  **MODERATOR:** Joan Lakoski

**Panel Discussions:**

9:15am-9:35am  **OVERVIEW OF DATA FROM THE SIGMA XI POSTDOC SURVEY:** Geoff Davis

9:35am-9:55am  **BEST PRACTICES:** Phil Clifford

9:55am-10:15am  **STRUCTURED MENTORING:** Maryrose Franko, Kathy Svoboda

10:15am-10:35am  **REDUCING CONFLICT:** Sharon Milgram

10:35am-11:00am  **Questions & Answers**
Howard G. Adams, PhD

Dr. Adams is Founder and President of H.G. Adams & Associates, Inc., a Norfolk, VA based consulting company that provides human resources services and product to educational, governmental and industrial organizations. From 1978 to 1994 Adams served as Executive Director of the National Consortium for Graduate Degrees for Minorities in Engineering and Science, Inc. (GEM). Prior to joining GEM, Adams served as Vice President for Student Affairs at Norfolk State University.

Adams is a leading expert on mentorship and internship programs and has written, lectured and consulted extensively on developing people in both academic and workplace settings. He is a sought after keynote speaker and seminar presenter, having spoken at over 500 colleges and universities and numerous national conferences and conducted training for a number of fortune 500 companies. He is the author or coauthored of fifteen self help guides and handbooks including: Negotiating the Graduate School Process: A Guide for Minority Students, 1985; Focusing on the Campus Milieu: A Guide for Enhancing the Graduate School Climate, 1993; Recruiting Graduate Students: Implementing the Key “R” of Recruiting, 1998; Mastering the Ph.D. Process: Tips for Surviving and Excelling in a Doctoral Program, 2002; The Internship Guide: A Blueprint for Successfully Managing the Internship Experience, 2003; Networking: The Art of Meeting and Greeting People, 2003 (co-authored); and The Undergraduate Research Experience: Examining Roles, Responsibilities, Strategies and Actions for Forming Effective Mentorship Alliances. In his 2002 book, Get Up With Something On Your Mind: Lessons for Navigating Life, Adams offers some essential for living a successful and productive life.

In 1989 President Ronald Reagan named Adams to the US Congressional Task Force on Women, Minorities and the Handicapped in Science & Technology. In 1993, the Society of Engineering Education awarded him it “Centennial Medallion” for individuals who have had a lasting impact on engineering education. In 1996, Adams was named by President Clinton as one of the first recipients of the Presidential Awards for Excellence in Science, Mathematics, Engineering and Mentoring. He was named a “20th Century Outstanding Educator” by Black Issues in Higher Education in 1999; in 2002 the National Society of Black Engineers awarded Adams its Golden Torch Award “Lifetime Achievement in Academia.” In 2004 he was named both the National Association for Equal Opportunity in Higher Education’s “2004 Distinguished Alumni” and the Norfolk State University School of Science and Technology’s, “2004 Alumni Star.”

Adams holds a B.Sc. from Norfolk State University, M.S. from Virginia State University Ph.D. from Syracuse University.
Dr. Michael J. Anderson, Sr., PhD

Dr. Anderson is currently a patent examiner at the United States Patent and Trademark Office. Prior to joining the Patent Office, he was a faculty member in the Department of Otolaryngology-Head and Neck Surgery at Johns Hopkins University School of Medicine where he completed a post-doctoral fellowship in the area of Biomedical Engineering. Dr. Anderson’s research interests have been focused on understanding how the brain processes sounds in noise and how this processing provides directional information about the source. He received both his Masters and Doctorate degrees in Biomedical Engineering from a joint program at Rutgers University and the University of Medicine and Dentistry of New Jersey. His three undergraduate degrees in Physics, Mathematics and Physics with Engineering Emphasis were completed at Delaware State University. As an undergraduate, Dr. Anderson completed summer internships in Nuclear Physics at Princeton University and Astrophysics at University of California at Berkeley. When he is not working, Dr. Anderson enjoys family time with his wife Ebony and two sons Michael Jr. and Johnathan.

Avery August, PhD

Dr. August is an Associate Professor of Immunology in the Department of Veterinary and Biomedical Sciences at The Pennsylvania State University. He earned his B.S. degree in Medical technology at California State University, Los Angeles and his Ph.D. in Immunology at The Weil Graduate School of Medical Sciences at Cornell University. He did postdoctoral training in the Laboratory of Molecular Oncology at The Rockefeller University. His current research interests include signal transduction pathways that regulate T cell differentiation, as well as signaling pathways that regulate the development of an immune response against invading pathogens or in instances of autoimmune disease.

Joann A. Boughman, PhD

Dr. Boughman is the chief executive officer of the American Society of Human Genetics (ASHG), the primary professional organization (~8,000 members) of researchers, physicians, laboratory scientists and genetic counselors in North America, who are actively engaged in discovery, teaching, and health care applications in human genetics. ASHG takes an active role in the development and implementation of national science policy, and the executive office serves as liaison and coordinates activities for the diverse and dispersed member scientists. ASHG publishes The American Journal of Human Genetics, organizes the annual research meeting, and promotes human genetics education for professionals and the public.
Dr. Boughman received her Bachelor’s degree (1972) and Ph.D in Medical Genetics (1978) from Indiana University. She was faculty at the Medical College of Virginia for 3 years before moving to the University of Maryland, Baltimore where she served for 18 years. She was first an Associate Professor and then Full Professor in the School of Medicine, Departments of Obstetrics/Gynecology and Epidemiology & Preventive Medicine, and a Research Professor of Periodontics in the Dental School. She remains an Adjunct Professor of Obstetrics/Gynecology and Pediatrics at the University of Maryland, Baltimore (UMB).

At the University of Maryland, Dr. Boughman served as Vice President for Research and Dean of the Graduate School for 4 years, and then was Vice President for Academic Affairs and Dean of Graduate Studies from 1995-2001. Her responsibilities included research administration: faculty affairs; student services; records, registration and financial aid; library and information technology services; and academic and graduate programs.

Dr. Boughman is a Board certified Medical Geneticist and was elected to the Board of Directors for the American Board of Medical Genetics in 1990. She was named Secretary of the Board and then Vice President for 1995-1996. She is a registered Medical Technologist, and a Founding Fellow of the American College of Medical Genetics. Dr. Boughman served on the Secretary’s Advisory Committee on Genetic Testing (SACGT), and chairs the Molecular and Clinical Genetic Devices Panel of the Food and Drug Administration. She is a Commissioner of the Maryland Higher Education Commission.

Dr. Boughman has performed research in population genetics and epidemiology of blindness and hearing impairments, congenital heart malformations, periodontal disease, and is the author of many publications, including 63 peer reviewed journal articles, 15 book chapters, and 90 abstracts. She has presented at many national and international scientific meetings, and has been a faculty participant in several judicial workshops sponsored by the Einstein Institute for Science, Health and the Courts.

David R. Burgess, PhD

Dr. Burgess is a Professor of Biology at Boston College and has served in various administrative posts at universities including as a department chair and academic vice president. He was raised in New Mexico and Northern California. His current research, funded by the NIH since 1977, is in the area of cell division and on the science education pipeline for American Indians. He has received several awards including a Research Career Development Award from the NIH and the E. E. Just Award from the American Society for Cell Biology where he was recently elected to Council. He has been elected Fellow of AAAS.
He has served on numerous national panels, both in basic science review and on study sections whose goal is to increase the diversity of scientists. He is a Past-President of the Society for the Advancement of Chicanos and Native Americans in Science. He serves on the Council and the Minority Action Committee of the American Society for Cell Biology, as advisor to NSF and AAAS for the NSF AGEP program, and the Committee on Opportunity in Science for AAAS. He has presented a number of keynote addresses and lectures to scientific societies, universities and other organizations on his research and in the area of training disparities for minorities in the sciences. He served as a member of the Advisory Committee for the Office of Research on Minority Health at the NIH, the Advisory Committee to the Director at NIH, the NIH National Human Genome Research Institute Advisory Council, the NSF Committee on Equal Opportunity in Science and Engineering and the Biological, and Environmental Research Advisory Committee for the Department of Energy.

Cherie L. Butts, PhD

Dr. Butts is currently working as a postdoctoral fellow at the National Institute of Mental Health/NIH in the Section on Neuroendocrine Immunology & Behavior under the advisement of Dr. Esther M. Sternberg, Section Chief. Dr. Butts also has faculty appointments at the University of Maryland and Howard University. She obtained her undergraduate and master’s degrees from Johns Hopkins University and her doctorate degree from the University of Texas at Houston Health Science Center, conducting her research studies at the University of Texas MD Anderson Cancer Center in Houston, TX. Dr. Butts’ research focuses on investigating the interactions between steroid hormones and the immune system in an effort to understand how this modifies ability to fight infection. Her current project focuses on the role of the steroid hormone progesterone on modulation of dendritic cell functions. She expects to use the knowledge gained from these experiences to study the role of steroid hormones in susceptibility to infection and how this contributes to development and/or severity of diseases, such as gynecological cancers. Her career goals include obtaining a faculty position at a major research institution and later creating a foundation that develops programs to help students in disadvantaged communities understand the importance of studying science.
Speaker Biographies

**Chellu S. Chetty, PhD**

*Dr. Chetty* is the Executive Director, Office of Sponsored Research Administration and Regents Distinguished Professor of Biology at Savannah State University. Currently, he is also directing NIH-funded MBRS and NSF-funded HBCU-UP Programs. Before joining the Savannah State faculty in 1993, Chetty spent five years as a visiting faculty in a collaborative project between University Medical Center, Jackson, MS and Selma University, Selma, AL. He received a BS degree in biology in 1974 from SV University in Tirupati, India. He received subsequent degrees, MS science in zoology in 1976 and a doctorate in zoology in 1979, also from SV University. Chetty spent the next nine years at his alma mater as an assistant/associate professor, which included a two-year stint as a post-doctoral fellow at the University Medical Center in Jackson, MS, from 1982 to 1984. Chetty has earned numerous accolades and awards for his student engagement practices and accomplishments. Chetty has guided 10 doctoral students and has written or co-authored more than 200 professional research articles for publications. More than 80 of these publications include students as co-authors. He developed a strong mentoring alliance through which faculty can effectively engage the students and received 2003 Presidential Award for Excellence in Mentoring at a White House Ceremony and 2003 Regents (University System of Georgia) Award for Excellence in Teaching and Research in Undergraduate Education in the regional and state university category.

**Philip Clifford, PhD**

*Dr. Clifford* is Associate Dean for Postdoctoral Education and Professor of Anesthesiology and Physiology at the Medical College of Wisconsin. He has participated in discussions on postdoctoral training as one of the founding members of the Advisory Board of the National Postdoctoral Association. As a part of FASEB’s Science Policy Committee on Training and Careers, he was a coauthor of the Individual Development Plan for postdoctoral fellows. He is also a member of the AAMC GREAT Group Committee on Postdoctoral Issues which developed the “Compact Between Postdoctoral Appointees and Their Mentors.” Dr. Clifford heads an active research program investigating the physiological mechanisms regulating skeletal muscle blood flow during exercise. His research laboratory has been funded by the NIH since 1988, with additional funding from the American Heart Association and the Department of Veterans Affairs. He is a fellow of the American Heart Association and the American College of Sports Medicine and serves on the editorial boards of several physiological journals. He is also a consultant in the medical device industry.
**Geoff Davis, PhD**

*Dr. Davis* earned his PhD in applied mathematics from New York University's Courant Institute in 1994 and has since employed his doctoral education in a variety of capacities. He has been an assistant professor in the Mathematics Department at Dartmouth College, the Texas Instruments Visiting Assistant Professor in the Electrical and Computer Engineering Department at Rice University, a researcher in the Signal Processing Group at Microsoft Research, a developer at San Francisco-based startup company 4charity, a Visiting Scholar at Sigma Xi, the Scientific Research Society, and a Werthheim Fellow at the Labor and Worklife Program at Harvard Law School.

Davis’ mathematical research centered around representations of information, with a particular focus on wavelets and related transforms. His work on image coding led to an NSF Mathematical Sciences Postdoctoral Fellowship and the 2000 IEEE Leon K. Kirchmayer Prize Paper Award.

Davis has had a longstanding interest in science education and policy issues. In 1997 he created the phds.org web site, which is read by 80,000 people each month. He later ran the National Graduate School Survey with NAPGS and the Sigma Xi Postdoc Survey. He is a member of the National Bureau of Economic Research’s Science and Engineering Workforce Project.

Davis is currently mining data and writing code for his new company, Collected Insight. He lives in Raleigh, North Carolina.

**Shawn R. Drew, PhD**

*Dr. Drew* is a program director in the Minority Access to Research Careers Branch at the National Institute of General Medical Sciences of the National Institutes of Health (NIH), where she joined the staff in September 2003. Prior to this appointment, she served as director of the NIH Academy, an intramural postbaccalaureate research training program and was an adjunct professor of biology at the University of Maryland, University College and Prince Georges Community College, Largo, MD. She earned a bachelor’s degree in natural science with a concentration in chemistry in 1991 from Spelman College and went on to earn a Ph.D. in biology in 1998 from Howard University, where she participated in NIGMS’s Minority Biomedical Research Support program as a research associate. Her postdoctoral research was conducted in the Molecular and Clinical Hematology Branch, National Institute of Diabetes & Digestive & Kidney Diseases, NIH. Drew is a member of several professional societies including the American Society of Hematology and the Association for Women in Science.
Speaker Biographies

**Charles E. Egwuagu, MPH, PhD**

*Dr. Egwuagu* received his Ph.D from Yale University and M.P.H. from Yale School of Medicine in 1987. He completed a 3-year Research Fellowship at NIH (1990). Served as a Commissioned Officer of the United States Public Health Service from 1990 and left the PHS in 2000 after promotion to the rank of Captain (06). He became a Senior Investigator in the Laboratory of immunology in 1999 and has been the Chief, Section on Molecular Immunology since 2000.

**Guy C. Fogleman, PhD**

*Dr. Fogleman* is the Executive Director of the Federation of American Societies for Experimental Biology (FASEB). Before coming to FASEB in July 2006, Dr. Fogleman was Director of the Biomedical Research Division and Associate Director for Human Health and Performance at NASA, where he led NASA’s biomedical and biological science and technology programs. He has served as U.S. co-chair of the U.S-Russia Joint Working Group on Space Life Sciences and U.S. delegate to the multilateral International Space Life Sciences Working Group. He also served as Lead for the Advanced Human Support Technology Program at NASA Headquarters and worked as Program Manager for life sciences hardware development programs and for two Spacelab missions. He conducted research at the NASA Ames Research Center in California on the origins of life and on the physics of particles in microgravity. Prior to working for NASA, he held positions as associate professor at San Francisco State University, research associate at Tri-University Meson Facility at the University of British Columbia, and visiting physicist in the Theory Group at the Stanford Linear Accelerator Center, where he conducted research in theoretical elementary particle physics. Dr. Fogleman has a Ph.D. in physics, M.A. in mathematics and M.S. in physics from Indiana University in Bloomington and a B.S. in physics from Louisiana State University in Baton Rouge.

**Maryrose Franko, PhD**

*Dr. Franko* received her BS in biology in 1984 from John Carroll University in Cleveland, Ohio and her Ph.D. in molecular genetics from the University of Southern California in 1993. She received National Research Service Award for her postdoctoral project designing efficient ribozymes for use as antiviral therapeutic agents, which she carried out at the NIH. While at the NIH, Maryrose participated in the NIH Speakers Bureau and the NIH Science Alliance. She was active in science outreach including science fair judging, teaching hands-on-science in elementary
Schools, and giving workshops designed to encourage girls to excel in science, math and engineering.

She is now senior program officer for the graduate division at the Howard Hughes Medical Institute, and directs graduate programs for individuals pursuing research careers, and programs for institutions to enhance graduate education. Maryrose has long been interested in career issues for young scientists and was a member of the American Association for the Advancement of Science Task Force on Careers for Young Scientists and helped plan the a workshop on Training and Opportunities for Scientists in the 21st Century hosted by the NIH. She also developed GrantsNet, an online database of funding opportunities for training in the biological sciences. She has collaborated with the Burroughs Wellcome Fund and AAAS to launch the Career Development Center, an online resource for postdocs and junior faculty. She co-developed the BWF/HHMI Course in Scientific Management for senior postdocs and junior faculty, and was one of the driving forces behind the publication based on the course entitled Making the Right Moves: A Practical Guide to Scientific Management for Postdocs and New Faculty. Under her direction HHMI and BWF have recently released Training Scientists to Make the Right Moves, a resource for organizations interested in helping early-career scientists become successful managers of research programs.

Cynthia Fuhrmann, PhD

**Dr. Fuhrmann** is the Program Director for Academic Career Development within the Office of Career and Professional Development (OCPD) at University of California, San Francisco. Dr. Fuhrmann leads the development of programs, services, and resources designed to build awareness of academic career options available to students and scholars in the health and life sciences, and to help these populations build skills necessary for success in their chosen academic career paths. In particular, she directs UCSF’s Preparing Future Faculty (PFF) program (which she founded in 2004), coordinates courses in teaching & learning for Teaching Assistants in the sciences, and develops other professional development workshops. Dr. Fuhrmann received her Ph.D. in Biochemistry and Molecular Biology from UCSF in 2005, and her Bachelors degree in Chemistry from UC Davis in 1997. As a graduate student in David Agard’s laboratory, she studied mechanisms for serine protease catalysis and for protein stability using ultra-high resolution x-ray crystallography. She has teaching experience at the graduate, undergraduate, and K-12 levels, most recently as a postdoctoral fellow in science education at San Francisco State University.
Speaker Biographies

Andrew Green, PhD

Dr. Green holds a PhD in political science from Berkeley, and has spent the past eight and a half years as PhD counselor at the UC Berkeley Career Center serving graduate students, PhDs, and postdocs. A survivor of the academic job market, he spent six years at Connecticut College, serving on numerous search committees, before joining the Career Center. His specialty is working with PhDs in the sciences and engineering interested in academic and/or other professional career paths.

Laurel Haak, PhD

Dr. Haak is Science Director at Discovery Logic, Inc. She applies her scientific expertise to the development of new IT projects and works with clients to translate their scientific needs into technologies. Dr. Haak received a BS and an MS in biology from Stanford University. She was the recipient of a predoctoral National Institutes of Health National Research Service Award and received a PhD in neuroscience in 1997 from Stanford University Medical School, where her research focused on calcium signaling and circadian rhythms. Following a National Research Council research associateship at the National Institutes of Health, Dr. Haak took a position at the American Association for the Advancement of Science, where she served as editor of Science's Next Wave Postdoc Network. Before joining Discovery Logic, Dr. Haak was at the National Academies, where she was a program officer for the Committee on Science, Engineering, and Public Policy. She was responsible for producing two Academies reports, “Policy Implications of International Graduate Students and Postdoctoral Scholars”, and “Beyond Bias and Barriers: Fulfilling the Potential of Women in Academic Science and Engineering”, and worked on a number of other reports, including “Rising Above the Gathering Storm”, and “Facilitating Interdisciplinary Research”. She has served as president of Women in Neuroscience, co-chair of the Society for Neuroscience Committee on Women in Neuroscience, and on the Biophysics Society Early Careers Committee. In 2006, she was awarded the National Postdoctoral Association’s Distinguished Service Award and currently serves on their Advisory Board.
**Georges Haddad, PhD**

*Dr. Haddad* received his Ph.D. in Physiology and Biophysics from the University of Sherbrooke in Canada. His post-doctoral training was performed at the University of Cincinnati and then at the Clinical Research Institute of Montreal in the areas of cardiac electrophysiology and the pharmacology of vasoactive peptides, respectively. His first academic career was at the American University of Beirut, Lebanon as an Assistant Professor; after which he joined Howard University where he is an Associate Professor and the Director of Graduate Studies in the Department of Physiology and Biophysics. Dr. Haddad research has been focused on cardiovascular diseases such as hypertension, cardiac hypertrophy and heart failure. Throughout his career, he has received several grants through national (NIH) and international (WHO) agencies, as well as the private sector. To his record are over 75 peer-reviewed publications and abstracts. In addition, Dr. Haddad enjoys teaching cardiovascular physiology and pathophysiology in an integrated medical curriculum and graduate programs. Dr. Haddad serves on many scientific committees such as the FASEB/MARC advisory board and is a reviewer for several national and international scientific journals. He is also an active member of the American Physiological Society, the American Heart Association, the American Society of Gene Therapy and Heart Failure Society of America. Dr. Haddad has received multiple distinguished awards and appreciations for his dedication and success throughout his scientific career. On another note, Dr. Haddad also enjoys music composition and recording, part of his personal endeavors.

**Laundette Jones, PhD**

*Dr. Laundette Jones* was born in Washington, DC on November 5, 1970. She attended public schools in Prince Georges County and graduated as salutatorian from Fairmont Heights High School in 1988. She received her B.S. in Chemistry from Morgan State University in 1992 and then received her doctorate in the Department of Environmental Health Sciences, Division of Toxicological Sciences at the Johns Hopkins Bloomberg School of Public Health in May 2000.

After graduating from Hopkins, Dr. Jones spent a year as a postdoctoral fellow in the Laboratory of Experimental Carcinogenesis at the National Cancer Institute, National Institutes of Health where she analyzed the molecular mechanisms of mammary gland genotoxicity and carcinogenicity of food derived heterocyclic amines. She then served as the Assistant Director at Biotechnical Institute of Maryland, Inc.,
Baltimore, MD from 2001-2003. She completed a second postdoctoral fellowship at the Georgetown University, Lombardi Cancer Center where she investigated the role of the Breast Cancer Susceptibility 1 (BRCA1) gene breast cancer development.

In July 2005, Dr. Jones was appointed as an Assistant Professor in the Department of Pharmacology and Experimental Therapeutics at the University of Maryland, Baltimore, School of Medicine. Her appointment was accompanied by a faculty scholar award from the University of Maryland’s NIH BIRCWH (Building Interdisciplinary Research Careers in Women’s Health) program which provides financial support and 75% released time to conduct interdisciplinary research activities in women's health... Research in her laboratory is focused on understanding how environmental exposures in combination with genetic predisposition affect the risk of developing breast cancer, with a particular focus on BRCA1-mutation related breast cancer.

Michelle Jones-London, PhD

Dr. Michelle D. Jones-London joined NINDS in the Office of Minority Health and Research (OMHR) as a Program Director in July, 2006. Dr. Jones-London earned her Ph.D. in Neuroscience from the Department of Neuroscience and Anatomy at Pennsylvania State University College of Medicine. She then received postdoctoral training as a research fellow at University of Pennsylvania in the Department of Psychiatry. Dr. Jones-London came to the NIH in July 2004 as an Emerging Leader Fellow; she performed duties across the Department of Health and Human Services including the Center for Scientific Review, FDA Office of Women’s Health Science Program, and the Immediate Office of the Secretary, Intergovernmental/Tribal Affairs Office.

Dr. Jones-London currently manages a portfolio of programs in OMHR which includes the Specialized Neuroscience Research Programs, Collaborative Neurological Sciences Award, Diversity and Re-Entry Supplements, Career Development Awards to Promote Diversity, the Neuroscience Scholars Program with SfN, and numerous diversity outreach programs. Her research interests have focused on understanding monoaminergic neurotransmitter regulation and mechanisms of behavioral psychopharmacology in animal models of disorders such as ADHD, Tourette Syndrome, and depression.
Stephen Keith, MD, MSPH

Dr. Keith assumed the position of President and Chief Operating Officer of Panacea Pharmaceuticals, Inc., in 2006. Panacea is developing novel cancer therapeutics and diagnostics, along with drugs to treat a range of CNS disorders. Dr. Keith also serves as Chair of the Board of Directors of NanoVec, Inc., an early-stage company seeking to develop next-generation vaccines and immunotherapeutics utilizing novel and proprietary nanobiomolecular delivery systems. From 2003 until 2006, Dr. was a Managing Director of Glocap Advisors, an investment bank based in New York, and a Senior Consultant with the Biologics Consulting Group. During 2002-2003, Dr. Keith was a General Partner with Emerging Technology Partners, an early-stage life sciences venture capital firm in Maryland.

Dr. Keith has held a range of senior management positions in the pharmaceutical and biotechnology industries. Just prior to joining Emerging Technology Partners, he held the position of President and Chief Operating Officer, Antex Biologics Inc. From 1995 to 2000, Dr. Keith served as Vice President, Marketing and Sales, at North American Vaccine, Inc. From 1990 to 1995, Dr. Keith held various positions at Merck & Co., Inc., including Senior Director, Health Care Delivery Policy in Corporate Public Affairs, Senior Customer Manager in the U.S. Human Health Division, and Senior Director, Health Strategies, in the Merck-Medco Managed Care Division.

Dr. Keith completed his undergraduate work at Amherst College, Amherst, Massachusetts, graduating Magna Cum Laude with a Bachelor of Arts degree in 1973, and he received the M.D. degree from the University of Illinois in 1977. Dr. Keith completed a three-year residency in Pediatrics at the University of California, Los Angeles, Center for the Health Sciences in 1980. From 1980 to 1982, he was a Robert Wood Johnson Foundation Clinical Scholar at UCLA, during which time he received a Masters in Science in Public Health from UCLA and completed a majority of the courses toward a Masters in Business Administration at the UCLA Graduate School of Management. During this same period he conducted research at the Rand Corporation in health manpower policy analysis. From 1982 to 1987, Dr. Keith served on the faculty of the Charles Drew Medical School and the UCLA School of Medicine in the Department of Pediatrics. From 1987 to 1990, Dr. Keith served as a Health Policy Advisor to the U.S. Senate Committee on Labor and Human Resources, under Senator Edward M. Kennedy.

Dr. Keith is a Fellow of the Academy of Pediatrics and a Diplomate of the American Board of Pediatrics.
Joan M. Lakoski, PhD

Dr. Lakoski is the Associate Vice Chancellor for Academic Career Development and the Founding and Executive Director of the Office of Academic Career Development at the University of Pittsburgh Health Sciences, Associate Dean for Postdoctoral Education and Professor of Pharmacology at the University of Pittsburgh School of Medicine. Dr. Lakoski received her doctoral degree from the University of Iowa, completed postdoctoral training in the Department of Psychiatry at the Yale University School of Medicine and has held faculty positions at the University of Texas Medical Branch in Galveston and the Pennsylvania State University College of Medicine, including Interim Chair of the Department of Pharmacology at Penn State. She maintains an active research program investigating the neuropharmacology of aging and impacts of mentoring, is a member of the graduate faculty at the University of Pittsburgh and participates as a reviewer for NIH CSR study section panels. She has been the recipient of an NIH Research Career Development Award, an Independent Investigator Award from the National Alliance of Research on Schizophrenia, an Administrative Fellowship at the Pennsylvania State University and a Committee on Institutional Cooperation Academic Leadership Program Fellow.

Currently, she serves as Chair of the Ethics Advisory Committee of the Endocrine Society, as a member of the AAMC Group on Faculty Affairs Program Planning and Transition Committee, as a member of the Board Development Committee for the National Postdoctoral Association, as a member of the Postdoctorate Committee for the AAMC Graduate Research and Education Training Group, as Chair of the Committing on Teaching for the International Union of Pharmacology, as a AAMC Women’s Liaison Officer for the University of Pittsburgh School of Medicine and serves as Co-Director of the KL2 Clinical Research Scholars Program and Director of Mentoring and Faculty Development for the Clinical Translational Service Award at the University of Pittsburgh Schools of the Health Sciences. Her administrative responsibilities encompass oversight and development of comprehensive career development services, including mentoring programs for professional students, postdoctoral fellows, residents, clinical fellows and faculty across the health schools at the University of Pittsburgh. She remains committed to creating and shaping the future of the biomedical research community.
Christina Lewis, PhD

Dr. Lewis is currently a postdoctoral fellow in the Immunobiology Division at Cincinnati Children’s Hospital Medical Center in Cincinnati, Ohio, where she is currently investigating the molecular and immunologic mechanisms underlying the pathogenesis of asthma. Dr. Lewis earned her doctorate in physiology from Colorado State University in Ft. Collins, CO, and conducted her doctorate research at the National Jewish Medical & Research Center in Denver, CO. Prior to joining Cincinnati Children’s last fall, Dr. Lewis did a postdoc at the University of California, San Francisco, where her interests and roles in postdoctoral issues were diverse. While at UCSF, Dr. Lewis was the President of the Postdoctoral Scholar’s Association at UCSF, Chair of the system-wide University of California Council of Postdoctoral Scholars, and served as postdoctoral representation to the UCSF Strategic Planning Board, Committee for Evaluation of Professional and Career Development Programming, Chancellor’s Advisory Committee on the Status of Women, Graduate Council, and Preparing Future Faculty. Dr. Lewis is currently serving on the Board of Directors for the National Postdoctoral Association, and is in her second year of that role.

Melvin Limson, PhD

Dr. Limson is the K-12 Education Programs Coordinator at the American Physiological Society since September 2006. He completed his Ph.D. in Biochemistry in 2002 from Rutgers University and the University of Medicine and Dentistry of New Jersey. Prior to graduate school, he earned his B.S. in Biology from Duke University in 1994, and worked for two years in the pharmaceutical industry. Dr. Limson’s interest in precollege science education stems from his involvement with various teaching responsibilities, web-based curriculum development projects, teacher professional development programs, and community outreach programs throughout his academic career. From 2002 to 2004, he was a Postdoctoral Fellow with the University of Utah’s Genetic Science Learning Center (http://learn.genetics.utah.edu) funded by the Howard Hughes Medical Institute and by a Science Education Partnership Award from the National Institutes of Health. The fellowship provided Dr. Limson the opportunity to gain experience as a science educator for teachers, students, and the general public. In 2004, he was recruited as a Postdoctoral Associate functioning as the Project Manager for the Virtual Courseware Project (http://ScienceCourseware.org) at the California State University, Los Angeles. In collaboration with science teachers, the project team produced inquiry-based web simulation activities in biology and the earth sciences for high school students as an enhancement to curriculum. The project was funded by an Instructional Materials Development award from the National Science Foundation.
Bill Lindstaedt, MS

Mr. Lindstaedt has been helping scientists and engineers make career decisions for nearly fifteen years. He began his own career as a chemical engineer, later moving into a career counseling position and now draws on his own experiences as a career-changer when helping his clients find their ideal professional paths.

Bill completed a Master’s degree in the Counseling Psychology and Higher Education Departments at Indiana University. His career counseling experience includes work with engineering and science students at Case Western Reserve University and Rose-Hulman Institute of Technology.

Since 2002, he has served as Director of the Office of Career and Professional Development at the University of California, San Francisco, where he assists graduate-level trainees and postdoctoral research scientists with career and professional development issues. He has developed particular expertise working with life and health scientists as they transition from academic positions to careers in biotech and other industry settings.

Bill has written career-related pieces for the Boston Globe, the Indianapolis Star and Science’s Next Wave. His insights have been featured in job market articles in the New York Times, Science Magazine, the San Francisco Chronicle, USA Today and Newsweek.

Sharon Milgram, PhD

Dr. Milgram is currently director of the Office of Intramural Training and Education at the National Institutes of Health in Bethesda, Maryland. There she oversees the career and professional development of over 4000 trainees, from undergraduates gaining their first research experience to postdoctoral fellows spread across all NIH Institutes and Centers.

Dr. Milgram’s lab is housed in the National Heart Lung & Blood Institute. Her research focuses on the trafficking of proteins in polarized cells and on the identification of scaffolding proteins that coordinate signaling complexes important for polarized cell function. Before moving to the NIH in April 2007, Dr. Milgram was Professor of Cell and Developmental Biology at the University of North Carolina at Chapel Hill where she directed the Interdisciplinary Biomedical Science Ph.D. program and helped open the Office of Postdoctoral Services. Dr. Milgram has mentored over 30 undergraduate students, 10 Ph.D. students, and seven postdoctoral fellows in her lab. Many of her former undergraduate students have moved onto graduate or professional school. Graduate students and postdoctoral fellows who trained with Dr. Milgram are currently employed by colleges, universities, the government, and private industry. Dr. Milgram received her PhD from Emory University in 1991 and did postdoctoral work at Johns Hopkins University from 1991 – 1994.
**Clifford Mintz, PhD**

*Dr. Mintz* has an extensive background in biopharmaceutical training and science career development. He has been a management consultant to a number of emerging and publicly-traded biopharmaceutical companies where he provided corporate training, business development services and strategic planning. In addition to his consulting career, Cliff has also held a variety of positions including stints as a medical school professor, professional recruiter, and medical/science writer.

Cliff is the President and Founder of *BioInsights, Inc.* biopharmaceutical training and career development firm and co-founder of *Prolong Pharmaceuticals*, a biopharmaceutical drug delivery company. He received a B.S. in Microbiology from Cornell University, a Ph.D. in *Bacteriology from the University of Wisconsin-Madison* and performed his post-doctoral studies at Oregon Health Sciences University and the College of Physicians & Surgeons, Columbia University.

**Darryl Murray, PhD**

*Dr. Murray* is a native of Birmingham, Alabama. He attended Alabama State University in Montgomery Alabama, where he earned a B.A. degree in Biology and a Masters degree in Microbiology. Subsequently, he earned a Ph.D. in Biology from the Johns Hopkins University in Baltimore, Maryland. He received his postdoctoral training at the NIH in the Laboratory of Genetics at the National Institute on Aging (NIA), where his work involved chromatin remodeling and gene regulation. In March of 2005, he became the NIA Intramural Research Program’s (IRP) Postdoctoral Recruitment Specialist and Associate Training Director. In these positions, he conducts recruitment activities for postdoctoral fellows, clinical fellows, staff scientists, staff clinicians, tenure track scientists, and upper level technical staff. He also works with Search Committee chairs and selecting officials to cast the broadest net possible when establishing an applicant pool for NIA IRP positions. He also designs and implements training and career development initiatives for current postdocs in training at the NIA.
Sunny Ohia, PhD

Dr. Ohia currently serves as Dean and Professor of Pharmacology, College of Pharmacy, University of Houston, Houston, Texas. He holds B.S. and M.S. degrees from the University of Ibadan, Nigeria and a Ph.D. in pharmacology from the University of Glasgow, Scotland, United Kingdom. He pursued postdoctoral research training in neuroscience from Memorial University of Newfoundland, Canada and an additional postdoctoral training in ophthalmology and visual sciences from University of Louisville Kentucky Lions Eye Center, Louisville. Prior to accepting the position at Houston, Dr. Ohia was on faculty at Creighton University School of Pharmacy and Health Professions where he served as a department Chair and as an Associate Dean for Administration. Dr. Ohia’s research and teaching interests include the pharmacology of receptors that regulate neurotransmitter release and their signal transduction pathways in the eye. He has received research funding from both the National Institutes of Health and the pharmaceutical industry. He is active in several professional organizations such as the American Association of Colleges of Pharmacy and the Association for Research in Vision and Ophthalmology. He is married to Dr. Ekanem Ohia, a family practice physician, and they have two children, Odochi, 21, and Uchechukwu, 18.

Arti Patel, PhD, MPH

Dr. Patel is currently the Director of Global Health Development at CTIS, Inc. in Rockville, Maryland, where her work is focused on leveraging information technology solutions to build global health capacity. She received her undergraduate and graduate degrees from the University of North Carolina at Chapel Hill. Her doctoral research focused on understanding the genetic and epigenetic alterations that contribute to the development of mouse lung tumors. Dr. Patel also holds a Master’s degree in Public Health from the Johns Hopkins Bloomberg School of Public Health. Most recently, Dr. Patel was a fellow in the Cancer Prevention Fellowship Program in the Division of Cancer Prevention at the National Cancer Institute.

Additionally, Dr. Patel has been an advocate for improving postdoctoral training since graduate school. She along with a group of proactive individuals was involved in starting the Trainees’ Assembly at the National Institutes of Environmental Health Sciences in 1997. During that time, she successfully led the establishment of several programs to enhance the training of graduate students and postdoctoral fellows at the NIEHS. One of these programs, a Science and Career Fair designed to promote the professional development of graduate students and postdoctoral, has become an annual event. She was also involved in starting the National Cancer Institute’s Center for Cancer Research Fellows and Young Investigator’s Association in 2000. As Chairperson for both
of these organizations and the American Association for Cancer Research Associate Member Council, Dr. Patel has instrumental in bringing together key stakeholders to work together towards the common goal of improving postdoctoral training. She has also served on the Fellows Committee (FELCOM) at the National Institutes of Health and was on the advisory board of the Postdoc Network (PDN). She has written several articles on postdoc issues, which have been published on Science’s NextWave. Additionally, Dr. Patel was a member of the Steering Committee that conceived and wrote the proposal that was submitted to the Alfred P. Sloan Foundation for the creation of the National Postdoctoral Association (NPA) in 2003. She served on the Executive Committee through 2005 and continues to serve on the Diversity Committee.

Edward Ramos, PhD

Dr. Ramos received a doctorate in genome sciences with a dissertation on cancer biology from the University of Washington, via the Fred Hutchinson Cancer Research Center, in 2006. During his graduate studies, Dr. Ramos started the organization Initiatives for Diversity in Engineering And Science, or IDEAS, which focuses on making opportunities in the sciences available to underrepresented minorities. One of the organization’s main initiatives—which is still ongoing—is to bring a future National Conference of the Society for Advancement of Chicanos and Native Americans in Science to Seattle, WA. These and other activities outside of the laboratory grew into an interest in public policy. In 2006, he was awarded the ASHG/NHGRI Genetics and Policy Fellowship and is currently serving the congressional component of the program in Senator Barack Obama's Washington, D.C. office.

Alyson Reed, MS

Ms. Reed is the Executive Director of the National Postdoctoral Association, providing staff leadership to this newly-formed professional society representing postdoctoral scholars. Ms. Reed is an experienced non-profit manager and executive, having previously served as the Executive Director of the Maryland Commission for Women and the National Committee on Pay Equity. She has also worked in senior management and policy posts at the National Kidney Foundation and the American College of Nurse-Midwives. Early in her career, Ms. Reed worked as a radio news reporter for an NPR affiliate in upstate New York, and also as a Project Manager for the League of Women Voters. In addition to her professional experience, Ms. Reed earned a Masters degree in Public Policy and Women’s Studies from the George Washington University and a Bachelor’s degree in English Literature from SUNY-Binghamton. She resides in University Park, Maryland.
Speaker Biographies

Jayne Reuben, PhD

Dr. Reuben is currently an Assistant Professor in the Department of Biomedical Sciences at Baylor College of Dentistry, a division of the Texas A & M University Health System. Dr. Reuben came to Baylor from the Department of Pathology at the University of Michigan, where she has worked as a postdoctoral research fellow. While at Michigan, she was a 2002 UNCF-MERCK Postdoctoral Science Research Fellow and member of the Executive Board of the National Postdoctoral Association. Dr. Reuben earned her doctorate in Pharmaceutical Sciences with specialization in Pharmacology and Toxicology from Florida Agricultural and Mechanical University (FAMU) in August 2001. Prior to her matriculation at FAMU, she worked as a biologist in the neuroimmunology branch at the National Institutes of Health's National Institute of Neurological Disease and Stroke. Dr. Reuben's research presentations have included meetings such as Experimental Biology, the Society for Neuroscience, and the American Society of Neurochemistry. She has been published in Oxygen and Nitrogen Radicals, the Journal of Immunology and the Journal of Neurochemistry. At Baylor, Dr. Reuben will continue her research on neuroimmune mechanisms of lung injury, as well as lend her talents to the group of BMS faculty investigating factors regulating the inflammatory response in the temporomandibular joint.

Kenna Shaw, PhD

Dr. Shaw graduated Magna Cum Laude from the College of William and Mary with bachelor's degrees in Spanish and Biology. Before completing her PhD in Cell and Developmental Biology at Harvard University, Kenna spent a year in Chile as a Fulbright Scholar investigating the role of scientists in K-12 education. While in Chile, Kenna played a key role in the revision of the national biology curriculum and directed a professional development program for high school teachers on molecular biology. This program has now been extensively used throughout Latin America and is still in use today in Chile. Her interest in science education peaked, Kenna continued to volunteer and perform outreach in K-12 education while in graduate school. As a post-doctoral fellow at the National Institutes of Health, Kenna also served as a fellow at the National Science Resources Center where she worked on professional and curriculum development for K-8 science education. She is currently the Director of Education for the American Society of Human Genetics and the Genetics Society of America and coordinates all educational outreach, professional development and training programs for the society.
Mr. Smaglik is a science journalist who’s been covering biomedical research and policy for the past nine years. He’s written and edited for Science News, The Scientist and, for the past six years, Nature. When the first human stem cells were isolated, he wrote that clinical applications remained years way, due to political and ethical concerns (The Scientist 12 (23):1 (23 November 1998). In 2001, he launched Naturejobs as an editorial section of the journal. Naturejobs covers the world of scientific careers and encompasses multiple sectors, disciplines and parts of the world. This year, the Naturejobs web site, which combines scientific career news with classified advertising, won a national award from Editor & Publisher. As part of Naturejobs’ mission, Smaglik has moderated numerous panels and career talks sponsored by Naturejobs, the New York Academy of Sciences, Euroscience, and the European Molecular Biology Laboratory. He has also published and presented his peer reviewed research on interactive health communication.

Dr. Smith is a Professor, Department of Biochemistry and Molecular Biology, Howard University, College of Medicine, Washington, DC. Education: B.S. (Chemistry / Biology): Benedict College, Columbia, SC. M.S. and Ph.D. (Biochemistry), George Washington University, Washington, DC. Post-doctoral experience, Washington University, St. Louis, Missouri. Experiences: Chemist, National Institutes of Health (NIH). Research Group Leader for Enzymology, Melpar, Inc. Falls Church, VA. Senior Scientist, Co-Founder and Co-Director, Biomedical Division Summer Teaching and Research Institute (for scientists at minority serving institutions), Lawrence Livermore Laboratory, University of California, Livermore, CA. Associate Professor of Biochemistry and Assistant Dean, Graduate School of Biomedical Sciences, The University of Texas Health Science Center, Dallas, TX. Chairman, Department of Biochemistry and Molecular Biology, Howard University, College of Medicine. Program Director, Biomolecular Structure and Function, Molecular and Cellular Biosciences, National Science Foundation, Arlington, VA. Professional Activities have included: Member, Biochemistry Study Section, NIH. Cellular and Molecular Basis of Disease Fellowship Review Committee (NIGMS). Member, Review Panel for the US Army Medical Defense Command conducted by the American Institute of Biological Sciences. Review panel for NSF and consultant for the NHLBI/NIH’s Board of Scientific Counselors. Member, Visiting Committee for the Department of Biology, Massachusetts Institute of Technology. Consultant to the Ohio Board of Regents – Eminent Scholars and Research Investment Fund programs. Member and subsequently

Kathy K. H. Svoboda, PhD

Dr. Svoboda is the current President of the American Association of Anatomists and a Professor of Biomedical Sciences, Director of the Cell and Molecular Biology Core Facilities at Baylor College of Dentistry which is part of the Texas A&M University Health Science Center. In addition, Dr. Svoboda is an Adjunct Professor of Ophthalmology at Southwestern Medical School in Dallas, TX. She has a Masters of Science degree in Human Genetics and a Ph.D. in Anatomy from the University of Nebraska Medical Center located in Omaha, Nebraska. In addition, she was a Research Fellow in the Department of Anatomy and Cellular Biology at Harvard Medical School. She has held faculty positions at Harvard Medical School, Boston University School of Medicine and Baylor College of Dentistry. Dr. Svoboda has been a member of several NIH study sections including the NIH and NSF Shared Instrument Study Sections and NIH VISA Study Section. Dr. Svoboda has mentored over 35 postdoctoral, Ph.D., M.S. graduate students, undergraduate, medical and dental predoctoral students, and college/high school summer research trainees. Her students have obtained many travel and student competition awards including: five finalists, one 3rd place and two 2nd place winners in the American Association of Anatomists Jan Langman competition; one Balint Orban honorable mention; one Hatton finalist; one Henry Russek Student Award. Student grants include: NIH F30 Research Fellow, KO8 and NRSA, American Association of University Women Education Foundation Dissertation Award, and Graduate Student Research Award from Boston Univ. School of Medicine. Dr. Svoboda’s research interests include extracellular matrix stimulated signal transduction pathways and influence on embryonic palate, cartilage and corneal epithelial differentiation. Her research has been supported by NIH, NSF, March of Dimes and the Baylor Oral Health Foundation.
Crispin Taylor, PhD

Dr. Taylor is Executive Director of the American Society of Plant Biologists. He was born in the UK, and immigrated to the US in 1985 after receiving a bachelor's degree in microbiology from the University of Surrey. He obtained a PhD in genetics at the Michigan State University – Department of Energy – Plant Research Laboratory, graduating in 1993. After a short postdoc, Taylor leaped from gels to journals, taking over as news and reviews editor at The Plant Cell, which is published by the ASPB. After four years at ASPB, Taylor moved to Science’s Next Wave, AAAS’s potent online resource for early career scientists, where a confluence of circumstances saw him directing the website a few years later. In 2004, Taylor moved back to ASPB and his current position as the CEO of this 5,000-member professional society.

Nancy L. Thompson, PhD

Dr. Thompson is Associate Dean for Graduate and Postdoctoral Studies in the Division of Biology and Medicine at Brown University. She was appointed to this new associate dean position January 30, 2006. The position was created with the goal of focused attention on trainee recruitment, professional development, mentorship, diversity, career tracking and funding. Dr. Thompson is also Professor of Medicine and Pathology and Laboratory Medicine (Research) and Chair of the Rhode Island Hospital COBRE Center for Cancer Research Development Mentoring Committee. She received her Ph.D. from Brown University and conducted postdoctoral training at NIH. Her research interests are in cancer and injury related gene expression and molecular biomarkers. As a faculty member and administrator, Nancy directs considerable efforts in the areas of professional development and advances in diversity within the institution. Dr. Thompson has been the PI of three Department of Education GAANN pre-doctoral training grants and currently serves on the FASEB MARC (Minority Access to Research Careers) Advisory Board.
J. Lille Tidwell, PhD

Dr. Tidwell is a Technology Licensing Associate at the American Type Culture Collection (ATCC) in Manassas, VA, where she manages and negotiates agreements for the purposes of transferring technology between organizations and institutions across the world.

Dr. Tidwell earned a B.S. in Biology from Western Carolina University (1991) and worked as a scientist in the environmental laboratory industry before entering graduate studies. She received her Ph.D. in Neurobiology and Anatomy from Wake Forest University in 2001 where she studied the role of Heat Shock Protein 70 in Neuronal Survival following peripheral nerve injury. Dr. Tidwell followed her interest in neuronal plasticity, researching spinal cord injury as a postdoctoral fellow at Georgetown University (2001-2004). During this time, Dr. Tidwell also developed interests outside of academic research. She was the founding co-chair of the Georgetown University Postdoctoral Association (2003-2004) and an Executive Board member of the National Postdoctoral Association (2003-2005). Dr. Tidwell pursued these interests with much enthusiasm and excitement, producing several proposals, posters, and a publication. After attending many alternative science career symposiums and networking, Dr. Tidwell discovered her interest in the emerging field of Technology Transfer. She was awarded a Technology Transfer Fellowship at the National Institute of Health Office of Technology Transfer (NIH OTT) and completed courses in Technology Transfer at the NIH (2004-2005). During this fellowship program, Dr. Tidwell and her business partner developed a business plan showcased and chosen by the Washington Board of Trade in Washington, DC. Dr. Tidwell also received a Howard Bremer Scholarship from the Association of University Technology Managers (AUTM, 2006) based on her merits for volunteer activities, choosing a new career in Technology Transfer, publishing an article with her colleagues in the AUTM Journal, and for attending the 2006 meeting. Dr. Tidwell served as a Patent Examiner for the United States Patent and Trademark Office (USPTO, 2005-2006) before accepting her current position as a Technology Licensing Associate at ATCC.
**Daniela Verthelyi, PhD**

*Dr. Verthelyi* received her M.D. degree from the University of Buenos Aires, Argentina, in 1988, and her Ph.D. degree in Immunology from the Virginia-Maryland Regional College of Veterinary Medicine at Virginia Polytechnic Institute and State University in 1996. During this phase of her career, her research focused on understanding the effects of sex hormones on B cell homeostasis. She was the first to show that chronic exposure of non-autoimmune mice to estrogen leads to B cell hyperactivity and increased expression of auto-antibodies that are associated with systemic lupus and anti-cardiolipin syndrome. Following completion of her doctoral research, Dr. Verthelyi joined the laboratory of Dr. Dennis Klinman, where she described, a new class of immunostimulatory DNA that selectively induces the production of IFN-α by human plasmacytoid dendritic cells and the maturation of monocytes into dendritic cells. In 2002, Dr. Verthelyi became a principal investigator at the Food and Drug Administration where she continues her work on innate immune response modifiers. Dr. Verthelyi lives in Maryland with her husband and 2 daughters.

**Carrie Wolinetz, PhD**

*Dr. Wolinetz* is Director for Communications for the Office of Public Affairs at the Federation of American Societies for Experimental Biology (FASEB). Dr. Wolinetz works on a portfolio of issues on behalf of FASEB, including the use of animals in research, cloning and stem cells, homeland security, and federal funding of research. In addition, her duties include managing internal and external communications related to FASEB’s science policy program, encompassing writing and publishing articles and OpEds, coordinating outreach activities and producing materials such as the *Breakthroughs in Bioscience*, an illustrated series of articles designed to educate the public about the importance of biomedical research. Outside of FASEB, Dr. Wolinetz is an adjunct assistant professor at Georgetown University, in the School of Foreign Service’s program on Science, Technology & International Affairs, as well as serving as President-Elect of the Bethesda chapter of the Association for Women in Science. She has a B.Sc. in animal science from Cornell University and received her doctorate in animal science from the Pennsylvania State University, where her area of research was reproductive (oviductal and gamete) physiology. Dr. Wolinetz frequently speaks on issues of science policy and non-traditional careers for scientists. She may be contacted at cwolinetz@faseb.org or at (301) 634-7650.
Chad Womack, PhD

Dr. Womack is currently a tenure-track Assistant Professor in the Department of Microbiology at the Howard University College of Medicine in Washington, D.C. Dr. Womack is also co-founder, President and Chief Scientific Officer of NanoVec, Inc.—an early stage biotech company based in Bethesda, Maryland. NanoVec’s corporate mission is to develop novel vectors for vaccines and immunotherapeutics in the biodefense, infectious diseases and cancer markets. Prior to co-founding NanoVec, Dr. Womack completed 5 years of post-graduate training most recently as a Senior Research Fellow at the National Institutes of Health (NIH) Vaccine Research Center (NIH VRC), where his research program focused on HIV/AIDS pathogenesis and vaccine development in developing countries, involving both domestic and international research collaborations with scientists in India, and Africa (Nigeria, Botswana and South Africa). Prior to coming to the VRC in June of 2002, Dr. Womack spent several years at the Harvard AIDS Institute and the Harvard School of Public Health as a research associate in the laboratory of Dr. Max Essex. While at Harvard, Dr. Womack investigated the molecular diversity of HIV in India and rural Georgia (US). In addition, as the principal investigator, Dr. Womack conducted an HIV/AIDS health care utilization study and the delivery of health care services for HIV/AIDS patients in the city of Bombay. After completing his Ph.D. in 1998, and a year of post-doctoral research at the Harvard AIDS Institute, Dr. Womack spent 3 years as a Research Fellow in the Laboratory of Immunoregulation, NIAID under the guidance of Dr. Anthony Fauci, Director of NIAID, where he investigated pathogenic mechanisms of HIV-1 nonB subtypes. Dr. Womack was the first Ph.D. graduate student to matriculate at the Morehouse School of Medicine where he earned his Ph.D. in 1998; his dissertation research was entitled, “Molecular Epidemiology of HIV/AIDS in Rural Georgia.” He received his bachelors of science degree at Morehouse College in 1988 where he majored in biology with minors in Chemistry and Applied Physics. He graduated cum laude from Morehouse with honors in biology. Dr. Womack is the author of several published professional articles and reviews. Outside of his research activities, he is the founding President of the National Association for Blacks in BIO (NABB), a 501c3 nonprofit organization dedicated to building sustainable community among African-American professionals in the biomedical, pharmaceutical and biotechnology industries. Dr. Womack served as President of the NIH Black Scientists Association (BSA) in 2004; as a member of the Office of AIDS Research Planning Group for Racial and Ethnic Minorities; and as a member of the Joint NCRR/NIAID/OAR Working Group for RCMI Faculty Working on HIV/AIDS and Health Disparities at Historically Black Colleges and Universities (HBCUs). In addition, Dr.
Womack has also served as a member of the International Scientific Advisory Board for the Gede Foundation/Gede AIDS and Infectious Diseases Research Institute, the Board of Directors of the Women’s Collective, a non-profit organization dedicated to address the specific needs and improve the lives of HIV infected women in the DC metropolitan area, and the Board of Directors of the Black AIDS Institute, a non-profit organization that serves as an African-American think tank on HIV/AIDS.

Daniel Wubah, PhD

Dr. Wubah is a Professor of Biology and the Special Assistant to the President at James Madison University. He was a faculty member and then chairperson of the Department of Biology at Towson University. He came to James Madison University as the Associate Dean of the College of Science and Mathematics. He moved to his current position in 2003. Daniel is a microbiologist who has studied the obligately anaerobic zoosporic fungi. He was an Associate Editor of *Mycologia* and he is a member of the editorial board of “Frontiers: the Interdisciplinary Journal of Study Abroad.” He has mentored several students and testified before the US Congress on the scientific workforce of the future. Daniel serves on several panels for the National Science Foundation, National Institutes of Health, National Research Council and the American Association for the Advancement of Science. He is currently a member of the NSF Biology Directorate Advisory Committee and the NSF Office of International Science and Engineering Advisory Committee. He is an F21 member of Project Kaleidoscope and administers the list server for the Council on Undergraduate Research. He earned a B.Sc. (Hons) and Dip. Ed. from the University of Cape Coast in Ghana. He received his MS from the University of Akron, OH and his Ph.D. from the University of Georgia, where he also did postdoctoral work at the U.S. EPA Research Lab.
# Career Path Round Table Sessions

### Science Policy - Tables 1 & 2

**Carrie Wolinetz, PhD**  
Office of Public Affairs  
FASEB  
Bethesda, MD

**Edward Ramos, PhD**  
Public Policy Fellow  
ASHG/NIH/NHGRI  
Bethesda, MD

### Industry - Table 3

**Stephen Keith, MD, MSPH**  
President & COO  
Panacea Pharmaceuticals, Inc.  
Gaithersburg, MD

### Consulting - Table 4

**Clifford Mintz, PhD**  
President  
BioInsights, Inc.  
East Windsor, NJ

**Arti Patel, PhD, MPH**  
Director, Global Hlth. Dev.  
CTIS, Inc.  
Rockville, MD

### Science Education - Tables 5 & 6

**Kenna Mills Shaw, PhD**  
Director of Education  
ASHG  
Bethesda, MD

**Melvin Limson, PhD**  
K-12 Education Programs  
APS  
Bethesda, MD

### Non-Profits - Tables 7 & 8

**Crispin Taylor, PhD**  
Executive Director  
ASPB  
Rockville, MD

**J. Boughman, PhD**  
Executive Vice Pres.  
ASHG  
Bethesda, MD

**Daniel Wubah, PhD**  
Office of the Pres.  
James Madison Univ.  
Harrisonburg, VA

**Alyson Reed**  
Executive Director  
NPA  
Washington, DC

### Government Research - Tables 9 & 10

**Charles Egwuagu, PhD**  
NEI/NIH  
Bethesda, MD

**Darryl Murray, PhD**  
Postdoc Recruitment Spec.  
NIH/NIA/IRP  
Baltimore, MD

**D. Verthelyi, MD, PhD**  
Senior Staff Fellow  
CDER/FDA  
Bethesda, MD
**Government Admin - Tables 11 & 12**

**M. Jones-London, PhD**  
*Program Director*  
NIH/NINDS  
Bethesda, MD

**Guy Fogleman, PhD**  
*Executive Director*  
FASEB  
Bethesda, MD

**Shawn Drew, PhD**  
*MARC Program Director*  
NIH/NIMH  
Bethesda, MD

**Academia Research - Tables 13 & 14**

**Chellu Chetty, PhD**  
Savannah State Univ.  
Savannah, GA

**Georges Haddad, PhD**  
*Dir. Graduate Studies*  
Howard Univ.Col.Med  
Washington, DC

**Thomas Smith, PhD**  
Washington, DC

**Laundette Jones, PhD**  
*Dep.Pharm.&Exp.Ther*  
Univ. Maryland, Balt.  
Baltimore, MD

**Research Track - Tables 13 & 14**

**Sonny Ohia, PhD**  
*Dean, Col. of Pharmacy*  
University of Houston  
Houston, TX

**Cherie Butts, PhD**  
*Postdoc IRTA Fellow*  
NIH/NIMH  
Bethesda, MD

**Michael Anderson, PhD**  
*Patent Examiner*  
US Patent & Trademark  
Alexandria, VA

**Scientific Writing - Table 17**

**Paul Smaglik**  
*Science Journalist*  
NatureJobs  
Washington, DC

**Tech Transfer - Table 18**

**J. Lille Tidwell, PhD**  
*IP, Licensing & Services*  
ATCC  
Manassas, VA