



Sally S. Atherton, PhD
ARVO President

Dear ARVO Members,

As you know, the Association for Research in Vision and Ophthalmology (ARVO) is celebrating its 75th anniversary this year, commemorat-

ing excellence in research in the eye and vision community.

This milestone was especially enjoyed this spring during ARVO's Annual Meeting, held in Fort Lauderdale, Florida and attended by more than 8,200 people. Considering the world events that affected us all, I am thrilled participation increased from last year and that so many of you were able to join us for a week full of innovative science, state-of-the-art technology and research product exhibits, networking with friends and colleagues both in academic and social settings, interesting lectures, and fun social events.

I thank those who attended, presented, exhibited, and supported us during the Annual Meeting. The scientific program offered this year did not disappoint and we have already begun to plan for the 2004 Annual Meeting, the theme of which will be "The Site for Sight." I'm looking forward to seeing you April 25–29, 2004 in Fort Lauderdale.

With autumn fast approaching, I would like to take a moment and share with you important information pertaining to your Membership, particularly regarding ARVO's Strategic Plan and two Bylaws amendments.

Bylaws

At their meeting in June 2003, the Board of Trustees passed one procedural amendment to the ARVO Bylaws. This amendment changed the requirement that a Section must nominate two individuals to appear on the ballot when that Section is electing a Trustee. The Bylaws now read that a Section may nominate no more than two individuals for the position of successor trustee. While this means that a Section may, in fact, nominate only one individual to appear on the ballot unopposed, the Board made it clear that it did not endorse this practice. Whenever possible, Sections are encouraged to recruit two nominees to run for election when the time comes for the Section to choose its next trustee.

At the same meeting, the Board also approved one amendment regarding Emeritus Membership that will be voted on at the 2004 General Business Meeting. At the General Business Meeting, the voting members of ARVO will cast ballots on an amendment to remove age as criteria for Emeritus Membership. In accepting this amendment, the Board expressed its opinion that the stated age of 65 was too arbitrary, as many individuals work well past this age, and the setting of any age would be haphazard at best. The wording of the amendment establishes the requirements for Emeritus membership as having been a regular member of ARVO for at least 10 consecutive years and no longer actively engaged in vision research.

2004–2009 ARVO Strategic Plan

In May, the Board accepted the following vision statement, "[by] the year 2009, ARVO is recognized throughout the world as the leading international forum for vision research, a premier scientific society and the primary advocate for vision science worldwide."

In pursuit of this vision, the Board has adopted the final Strategic Plan for 2004–2009 and I welcome and encourage your input and involvement. Please visit www.arvo.org/aboutarvo/stratplan.asp to review the entire 2004 Strategic Plan. To share your thoughts and/or volunteer to be a part of the Plan's implementation, send a message with your name and contact information to rrupp@arvo.org. Your input is valued, and I especially encourage you to volunteer to be a member of one or more of the Committees, Task Forces, or Working Groups that will implement the plan.

(continued on page 3)

ARVO Co-sponsors Fall Symposia



ARVO is co-sponsoring at The American Academy of Ophthalmology Meeting, "Progress in Gene Therapy," organized by **Gary W. Abrams** and **Paul A. Sieving**. This symposium will be held Sunday, November 16, 2003 from 2:00 PM–3:25 PM in the Anaheim Convention Center, in Anaheim, California.



At the American Academy of Optometry Meeting, ARVO is co-sponsoring "Understanding the Basis and Treatment of Dry Eye," organized by **Alan Tomlinson** and **William H. Ridder III**, to be held Friday, December 5, 2003 from 1:00 PM–5:00 PM in the Dallas Convention Center, in Dallas, Texas.

Symposia details can be found for the respective symposia at www.aao.org and www.aaopt.org.

In This Issue

ARVO Elections	2
ARVO 2004 Annual Meeting	6–7
ARVO Advocacy	10
News from NEI/NIH	11
IOVS	13
ARVO Awards	14

2003-2004 Officers

Sally S. Atherton, PhD
President

Joseph C. Besharse, PhD
Vice President

Oliver J. Braddick, PhD
Vice President

Gary W. Abrams, MD
President-Elect

Thomas Yorio, PhD
Vice President-Elect

Robert N. Weinreb, MD
Immediate Past President

Paul L. Kaufman, MD
Executive Vice President

ARVO Office

Joanne G. Angle
Executive Director

Kimberly M. O'Sullivan
Publications Coordinator

12300 Twinbrook Parkway, Suite 250
Rockville, MD 20852-1606
Phone: (240) 221-2900
Fax: (240) 221-0370

2004 Membership Renewal

*Avoid
the last
minute
rush!*



Renewal invoices have been mailed to all ARVO members. **This is the only invoice you will receive.**

Remember that dues must be paid before you can access the abstract submission site.

Save time and postage by renewing online by credit card at www.arvo.org.

Elections

New Trustees 2003-2009

At its Annual Meeting in Fort Lauderdale, The Association for Research in Vision and Ophthalmology (ARVO) announced the election of new Trustees from the Anatomy & Physiology (AP) and Glaucoma (GL) Sections, as well as the President-Elect and Vice President-Elect for the coming year.

Robert Ritch, MD from the New York Eye and Ear Infirmary was elected to a five-year term as GL Trustee, assuming the office previously held by Robert Weinreb, MD of UC San Diego.



Robert Ritch, MD

Dr. Ritch is Surgeon Director and Chief of Glaucoma Services at the New York Eye & Ear Infirmary, New York City and Professor of Clinical Ophthalmology at The New York Medical College, Valhalla, New York. He has devoted his career to broadening the understanding of the nature of glaucoma and innovation in the medical, laser, and surgical treatment of glaucoma. Dr. Ritch has been a member of ARVO since 1977 and has served on its Program Committee. He is also active in the American Academy of Ophthalmology, serves on an Advisory Committee of the International Council of Ophthalmology, and the Program Committee of the American Ophthalmological Society. His research interests include ocular imaging, angle closure, glaucoma, and secondary glaucoma.

Martine Jager, MD, PhD from Leiden University in The Netherlands was elected to a five-year term as AP Trustee, assuming the office previously held by Edward Howes, MD of UC San Francisco.



Martine Jager, MD, PhD

Dr. Jager is head of the laboratory of Immuno-Ophthalmology, in the Department of Ophthalmology, Leiden University Medical Center, Leiden, The Netherlands. She has been an ARVO Member since 1990 and has also served on the ARVO Program Committee. Dr. Jager is a member of the American Academy of Ophthalmology, the Dutch and British Societies of Immunology, and serves on the Ophthalmic Oncology Task Force. Her research interests include uveal melanoma, ocular immunology (corneal transplantation, herpes, ocular immune privilege), and ocular surface diseases.

Officers Elected

The Board of Trustees elected **Gary Abrams, MD** from Wayne State University to the office of President-Elect, and **Thomas Yorio, PhD** from the University of North Texas as Vice President-Elect.

Trustees Nominated

Members of the Visual Psychophysics & Physiological Optics (VI), Retinal Cell Biology (RC), and Immunology & Microbiology (IM) Sections nominated successor Trustees for election at the 2004 Business Meetings of those particular Sections. Nominated were; from VI, **Donald Hood, PhD** and **Janette Atkinson, PhD**; from RC, **Barry Winkler, PhD** and **John Penn, PhD**; and from IM, **Todd Margolis, MD, PhD**.

The ARVO Board of Trustees has over-all responsibility for the business and affairs of ARVO. It consists of one elected Trustee from each of the 13 Scientific Sections that constitute the Association. The Board ensures that all ARVO sponsored or supported activities are consistent with the Association's mission to promote and support eye and vision research. The Board sets policy; monitors the activities of the committees and interest groups; interacts with other organizations; and develops an annual budget and allocates Association resources.

Committee Updates

Advocacy

In addition to monitoring issues in the US Congress related to the National Eye Institute (NEI) budget and research regulation, the Committee is planning its second "International Public Policy and Research Advocacy Symposium," scheduled for April 26, 2004, at the ARVO Annual Meeting. A summary of presentations from the first symposium are available at www.arvo.org/committee/advocacy/advocacy.asp. This is an important element in successfully achieving the Committee's larger goal of broadening the scope of ARVO's advocacy activities to support members outside the US.

Animals in Research

In June 2003, the Committee provided comment on proposed USDA guidelines for the maintenance of medical records for animals used in laboratory research. A copy of this comment can be found at www.arvo.org/committee/animalsinresearch/animalresearch.asp. The Committee is planning an exciting workshop for the 2004 Annual Meeting entitled, "Practical Issues in the Use of Animal Models." This workshop is scheduled for Monday, April 26. ARVO President, **Sally Atherton**, PhD, has approved the ARC Chair, **Jeffrey Kiel**, PhD to be the ARVO representative to the Association for Assessment and Accreditation of Laboratory Animal Care International replacing **Maureen Powers**, PhD, whose term expired.

Commercial Relationships

Building on the interest and success of their 2003 workshop on this topic, the Committee will again host a workshop at the 2004 Annual Meeting on the issue of intellectual property. This year's workshop will focus on working with a tech-transfer office and the impact of market forces. This workshop is scheduled for April 27.

Diversity

In planning its workshop for the 2004 Annual Meeting, scheduled for April 25, the Committee is working with the International Members Committee to address "The Trials and Tribulations of International Scientists." This workshop will focus on the hurdles international researchers face relating to training, funding, and travel.

Each year, a Subcommittee of the Diversity Issues Committee coordinates a program to educate local high school students about the importance of research by providing educational seminars and tours of the ARVO meeting. These students are a diverse group; bright, motivated and interested in science and health care professions. You can show your support by giving tours of the Meeting for 90 minutes on Tuesday morning April 27, 2004. For more information, please contact the High School Education coordinator, **Jeffrey J. Walline**, OD, PhD at walline.1@osu.edu.

Ethics and Regulations for Clinical Research

The Committee will address the issue of "Privacy Rights and HIPAA Regulations: Impact on Human Research" in its workshop, scheduled for April 25 at the Annual Meeting. In planning for this workshop, the Committee will be collecting data from ARVO members regarding the impact of HIPAA in their institutions. Please watch for this survey in the coming weeks.

International Members

The Committee continues to monitor the changing regulations governing the

issuance of travel visas for international researchers traveling to the US (see page 7). The Committee is also working to secure additional travel grants for international members presenting at the ARVO Annual Meeting.

Members-in-Training

Each year, the Committee hosts a number of events at the annual meeting for students, post-docs, and fellows including a Career Fair, Networking Reception, Pizza with a Prof, and a workshop dealing with career planning issues and opportunities. See the Annual Meeting *Program Summary Book* (mailed in March) for a full schedule of 2004 activities.

The Committee also encourages all ARVO members to visit the ARVO Career Center, an online job placement service available year-round on the ARVO Web site at www.arvo.org/careers/career.asp.

Long Range Planning

The Committee is pleased to announce the successful completion of the 1998–2003 ARVO Strategic Plan and the launch of the new Plan for 2004–2009, which can be reviewed at www.arvo.org/aboutarvo/stratplan.asp. There are many volunteer opportunities to assist in the plan's implementation over the next five years. All ARVO members are encouraged to review the plan and volunteer to serve in an area of interest.

(President's Message continued from page 1)

Online Surveys and Voting

In the next six months, several surveys related to the Strategic Plan and other ARVO projects will be conducted online. In addition, voting in the Trustee elections this spring will also be conducted electronically (with paper ballot option). Notifications for these surveys and election will be sent by e-mail. Please take advantage of the speed and convenience of this electronic format. Also please take a moment to check the member database on the Web site to ensure that we have your proper e-mail address. Log on to www.arvo.org and click on the "Membership Directory" link to review and, if necessary, update your information.

As we maintain a standard of quality we all have grown to expect, our focus remains the needs of you, our members. I hope you share my enthusiasm as ARVO continues to strive for excellence in the vision and research community, and I wish you continued success in your eye and vision related studies.

Sincerely,



Sally S. Atherton, PhD, *President*

2003 Annual Meeting

Highlights



ARVO Celebrates its 75th Anniversary

ARVO 2003 boasts attendance of more than 8,200 participants! Despite world events, the turnout increased from last year. We are looking forward to seeing you again in Fort Lauderdale in 2004.

“Career Vision” Helps ARVO Members See Possible Future

Choosing a career can be a lot like buying a new car, according to Chandra Louise, PhD, who spoke during a session entitled, “Your Career Vision: Focus on the Future,” during the 2003 Annual Meeting. To find a car, or career, that is the best for you requires careful research. Although making the wrong choice can be costly, many people may put more effort into researching their next vehicle than into selecting their next job.

The session, organized by the ARVO Diversity Issues Committee, was loaded with concrete advice for students searching for their first professional position as well as for experienced professionals considering a career change. Dr. Louise suggested both groups should take enough time to thoroughly consider their career choices. She noted that less than one-third of doctoral-level graduates pursue traditional academic careers. Alternatives range from jobs in biotechnology and

Cyber Cafe and ARVO Internet Suite

Sponsored by Allergan

Both were a huge hit with members and guests. If you did not make it to the Cyber Cafe or ARVO Internet Suite, make sure you stop by in 2004!



Chandra Louise, PhD, addressed about 100 ARVO Members-in-Training during the Career Vision session organized by the Diversity Issues Committee.

PHOTO: J. MATTHEWS

pharmaceutical companies to less commonly considered choices such as publishers and recruitment firms. Government employment and starting your own business are other possibilities for those seeking a rewarding career. Dr. Louise also advised that the secret to long-term job satisfaction is in matching your career choice to your natural abilities and talents. Success in one's career is best self-determined without too much regard for others' expectations.

Sophia Tragoulias, a PhD student from the Cooperative Research Center for Eye Research and Technology at the University of New South Wales, found the session to be a worthwhile experience. “I’ll use her [Dr. Louise’s] experience to take my career search to the next level,” said Ms. Tragoulias.

Dr. Louise is president of her own consulting firm, PharmaSupport, and is the author of the book, *Jump-Start Your Career in Bioscience*. Her presentation at the 2003 Annual Meeting can be found on her website at www.pharmasupport.com.

John A. Shoemaker, chair of the ARVO Publications Subcommittee prepared the above reports highlighting the 2003 Annual Meeting.

Pizza, Profs, and Professional Advice

What could be better than cheap pizza? “Pizza with a Prof” at the ARVO Annual Meeting, of course! Organized by the Members-in-Training Committee, “Pizza with a Prof” has become a regular feature of the Annual Meeting. It offers students and other ARVO members an opportunity to meet with senior researchers in an informal setting to discuss topics ranging from where to find the perfect post-doctoral position to how to publish your first manuscript.

John Daniel Twelker, OD, PhD, who planned this year’s session, was pleased with the turn out of more than 100. Among the crowd was Joanna Renwick, a master’s student in cellular and molecular medicine at the University of Ottawa Eye Institute. While attending the session on the last day of her first Annual Meeting, she said, “ARVO is amazing. It’s a lot of information—not just in my field, but also in so many others.”

Joanna joined the table of students talking with **Catherine McCarty**, PhD, who was discussing collaborative international research. “I’m very much enjoying the discussion,” Joanna said. “I’m very interested in international research, and this is helping me to decide what to do after I receive my master’s degree.”

Senior ARVO members who are willing to share their experience with students are needed to host topic-tables at next year’s session. If you’re interested in volunteering, please contact dtwelker@eyes.arizona.edu.



ARVO Members-in-Training enjoy a lunch of pizza and brownies while getting valuable career advice from more experienced ARVO Members.

PHOTO: J. MATTHEWS

Workshop Helps Members Understand NIH Peer Review

by John A. Shoemaker

The National Institutes of Health (NIH) may appear to work in mysterious way, but ARVO members who attended the NIH Grants Workshop at the 2003 Annual Meeting know better.

Staff from the NIH's Center for Scientific Review (CSR) conducted the workshop to help ARVO members understand what happens to their grant application after it is mailed.

The workshop began with an introductory presentation that explained the role of the CSR in the peer review process. The remainder of the workshop consisted of a mock study-section meeting.

After a grant application is received by the NIH, a CSR Referral Officer assigns the application to the study section best qualified to review its content. Prior to the meeting of the study section, two or more reviewers are assigned to read the application in detail and provide written comments. During the study section meeting, the primary reviewers elaborate on their comments and their entire group is permitted to discuss and score the application. After the application is reviewed and is scored by the study section, it leaves the CSR and is forwarded to a Program Officer at an NIH Institute or Center (such as the National Eye Institute) where the eventual decision about funding is made.

For more information about NIH grants, visit www.grants.nih.gov/grants/oer. To learn more about the Center for Scientific Review, go to www.csr.nih.gov. Watch for the CSR session at the 2004 Annual Meeting.



Staff from NIH Center for Scientific Review (CSR) conduct a workshop during the ARVO 2003 Annual Meeting to explain the CSR's Role in the grant application review process.

PHOTO: J. MATTHEWS

Travel Grants

The Academy of Optometry Student Travel Fellowship Recipients



PHOTO: J. MATTHEWS

Each year the Academy of Optometry offers a number of travel fellowships. Each student is given \$500.00 to attend the ARVO meeting. Fellowships are awarded for accomplishment and potential in optometric research and education.

The Academy of Optometry is honored to present this year's ARVO Student Travel Fellowship recipients: **Melissa D. Bailey, Shrikant R. Bharadwaj, Marcelline Ciuffreda, Lindsay Florkey, Ying Guo, Sanjeev Kasthurirangan, Pete Kollbaum, Srihari Narayanan, Fei Pan, Patrick T. Quaid, Aparna Raghuram** (not pictured), **Nalini V. Rangaswamy, Mitra Sehi, Rajaraman Suryakumar, and Abhiram S. Vilupuru.**

New AEVR/NAEVR Director

James Jorkasky has been appointed Executive Director of the National Alliance for Eye and Vision Research (NAEVR) and the Alliance for Eye and Vision Research (AEVR). He will succeed Edward McManus who managed AEVR/NAEVR since 2000.

Jorkasky, a chemist by training, has nearly 25 years of health care policy experience, he directed the Ophthalmic Sector, representing ophthalmic manufacturers on product approval and reimbursement issues and working closely with the ophthalmic and optometric professional societies while serving as Vice President, Membership and Communications, at the Advanced Medical Technology Association (AdvaMed).

ARVO is a founding member of AEVR/NAEVR.



James Jorkasky
AEVR/NAEVR
Executive Director

Looking for Funding?

The ARVO Web site has updated its **Funding Source Guide** and has added a listing of recent **Grant and Fellowship Announcements**, such as, Post-Residency

Training Fellowships at the Wilmer Institute. Go to www.arvo.org/awardsfunding/guidebok.asp.

Another useful resource is www.grantsnet.org which contains a searchable database of funding sources.





Fort Lauderdale, Florida

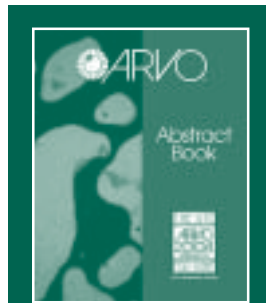
2004 Annual

2004 Abstract Submissions

Through www.arvo.org, the online abstract submission and revision Web site opens October 15, 2003 and closes on December 5, 2003 at 11:59 PM EST. December 7, 2003 at 11:59 PM EST is the latest you can revise an abstract. NOTE: An abstract must be completed by the December 5 deadline in order to revise through December 7. ARVO staff will not revise or correct abstracts.

Only an ARVO member can be a First Author on an abstract. A non-member cannot be a First Author on an abstract. You can become an ARVO member online at www.arvo.org. First Authors and all co-authors must disclose all commercial relationships at the time of submission and presentation. You must indicate the appropriate commercial relationship

code and the name of any firms that correspond to the codes indicated. Paper presenters must indicate this information on a slide at the time of presentation, and poster presenters must include this information on their poster.



2002 and 2003 Print-on-Demand Abstract Books are still available. Order through www.arvo.org and select Abstracts then Abstract Search 2003, or under "Other Abstracts 2002 Program Search."

Online Abstract Search and Program Planner

The Online Abstract Search and Program Planner, available after February 23, 2004 at www.arvo.org, will include a searchable database of authors, titles, full text of abstracts, and other program information. This program will again include searching capabilities, multiple abstract printing options including full sessions in PDF format, and a link to purchase a Print-on-Demand Abstract Book. Again available this year, your Meeting itinerary can be downloaded to a Personal Data Assistant.

Important Dates

2003

- September 2** Advance registration opens online at www.arvo.org with reduced fees for ARVO members
- September 2** 2004 Membership Renewal Site Opens
- October 15** Online abstract submission and revision opens at www.arvo.org
- December 5** Online abstract submission closes at 11:59 PM EST
- December 7** Online abstract revision closes at 11:59 PM EST. NOTE: An abstract must be completed by the December 5 deadline in order to revise through December 7

2004

- February 23** Notification of abstract acceptance
Abstract Search Program activated (www.arvo.org)
- March 2** 2005 Awards Nominations Deadline
- March 12** Deadline for Online Housing Reservations
- April 2** Deadline for Early Registration Fees
- April 16** Deadline for Annual Meeting Advance Registration
- April 23** Vision Research Conference (two days)
- April 24** ARVO Courses 9:00 AM - 4:00 PM
 - Evidence-based Ophthalmology: A Workshop on Finding, Synthesizing and Applying Clinical Evidence
 - Investigational Ocular Oncology
- April 25-29** ARVO Annual Meeting Fort Lauderdale, Florida

Program Summary Book and CD-ROM

The CD-ROM, both PC and Mac compatible, will feature enhanced loading and speed to provide more efficient use and data access. In addition, similar to the online program, there will be advanced searching capabilities, multiple abstract printing options, including full sessions in PDF format, and a link to purchase a Print-on-Demand Abstract Book. The *Program Summary Book* and CD-ROM will mail together in early March and delivery can take up to six weeks. Visit www.arvo.org to check your information in the Membership Directory Search to ensure that ARVO has your correct mailing address.



Air and Sea Show

The Air and Sea Show will be held at the end of ARVO, instead of the beginning. This should decrease interference in traveling to and from the Convention Center. The Air and Sea Show could be a great way to end your week and add some adventure to your ARVO experience!

Meeting

New Visa Requirements May Impact Annual Meeting Travel

Earlier this year, the United States Department of State enacted new procedures that will impact many international attendees to the ARVO Annual Meeting. Visa applications are now subject to a greater degree of scrutiny than in the past. For many applicants, a personal appearance interview is required as a standard part of visa processing, even where one may not have been required before. Applicants affected by these procedures will be informed of the need for additional screening at the time they submit their applications and should expect delays. The time needed for adjudication of individual cases will continue to be difficult to predict. The need for an interview will mean additional coordination with the embassy or consulate in order to schedule an interview appointment.

Additionally, travelers from countries that participate in the Visa Waiver Program should be aware of a new rule requiring that passports be machine-readable. Citizens of 27 countries can visit the US for up to 90 days without a visa—and the courtesy is returned to US citizens visiting those nations. The Visa Waiver Program applies to the nations of: Western Europe; Slovenia; Australia; New Zealand; Japan; Brunei; and Singapore. However, *The Washington Post* reports that as of October 1, 2003, **visitors from those countries will be turned away unless their passport is electronically coded.** Examples of the enforcement of this new rule include the denial of entry for travelers without visas from Belgium, whose passports US officials consider easy to counterfeit and for the half of all French passports that are not machine-readable.

ARVO recommends that all members begin the process now to determine the individual requirements that will impact travel planning for the 2004 Annual Meeting attendance and to begin the visa application process if necessary. Letters from ARVO stating participation in the Annual Meeting can be acquired by e-mailing mem@arvo.org. Visit www.travel.state.gov for information regarding visa applications, fees and processing.



PHOTO: J. MATTHEWS

2004 Exhibitors

Are there companies that you would like to see included in the 2004 Annual Meeting Exhibitors? Please forward suggestions to bhollis@arvo.org.

2004 Housing Reservations

All 2004 Housing Reservation Forms that were received at the Housing Desk during the 2003 Annual Meeting have been processed and confirmations have been sent. If you have not received a confirmation for your 2004 reservation, contact the Housing Bureau through e-mail at gflhousing@broward.org or fax: (954) 765-4414 for assistance.

Don't Wait! Best Hotels Fill Quickly!

If you have not already made a hotel reservation for 2004, go to www.arvo.org and click on the Hotel Reservation link. All hotels listed in the 2004 ARVO Housing Block will participate in the Shuttle Bus Service—a great way to beat traffic!

Sunday Symposia

Crystallins in Eye Pathology—They are Not Just in the Lens!

Myopia, Impact, Mechanisms, Treatment

Neuroprotection: Where Are We Now?

Zebrafish: A Model System to Study Ocular Development, Retinal Function and Disease

Basic/Clinical Lecture: Immunology of the Ocular Surface

Minisymposia

Extracellular Matrices of the Eye *Organized by the AP Section*

Gene Therapy *Organized by the BI Section*

Optical Aberrations, Vision and Imaging *Organized by the CO and VI Sections*

Sex-Based Biology in Ocular Disease and Treatment *Organized by the CO and CL Sections*

Honey, I Randomized the Kids: Studies in Pediatric Vision *Organized by the CL Section*

Growth Factor Signaling in Lens Formation: From Induction to Regeneration *Organized by the LE Section*

Ins and Outs for Aqueous Flow *Organized by the PH Section*

Neurotrophic and Anti-angiogenic Effects of PEDF in the Eye *Organized by the RC Section*

Stem Cells in the Retina *Organized by the RC Section*

Steroids and Other Anti-angiogenic Agents to Treat Retinal Vascular Disease *Organized by the RE Section*

Applied Neurophysiology: Using Noninvasive Electrodiagnostic Measures to Understand Visual Function in Diseases that Affect the Visual Pathways *Organized by the VN Section*

Visual Cortex Maldevelopment and Repair in Strabismus *Organized by the EY Section*

Membership News

ARVO Career Fair Attracts Hopefuls

by John A. Shoemaker

Prospective employers and hopeful candidates met at the Second Annual ARVO Career Fair held at the 2003 Annual Meeting. Eighteen employers ranging from universities to pharmaceutical companies were on hand and eager to talk about career options and specific job openings with Annual Meeting attendees.

Ernest Talarico, a doctoral candidate in gross anatomy at the Indiana University School of Medicine, was among the ARVO Members-in-Training that attended the Fair. "I'm looking for a tenure-track teaching position where I can set-up a lab in eye research, but I'm open-minded to other opportunities." After visiting the employer's tables, Mr. Talarico was happy to have received "a few nibbles," although his ideal job remained elusive.

A perfect match hadn't occurred yet for **Aron Shapiro**, either. He was at the Career Fair representing Andover Eye Associates & Ophthalmic Research Associates. He was looking for a full-time clinical ophthalmologist with corneal research experience. "Lots of people, but no luck yet. I hope we'll have lots more interested job-seekers throughout the rest of the day."



PHOTO: J. MATTHEWS

ARVO Members-in-Training meet with potential employers during the Career Fair at the 2003 Annual Meeting.

The **Career Fair** was organized by the Members-in-Training Committee. Other resources are available for ARVO members seeking new careers, including the online Placement Service. Visit the Career Center on the ARVO Web site regularly.

To participate in the 2004 Career Fair e-mail bhollis@arvo.org.



Discover the Career Center!

ARVO members can post their Personal Profiles at no charge! Just go to www.arvo.org, click on "Career Center" and Enter Your Profile. Employers are advertising here to reach the best targeted audience. Recent position listings encompassed a broad scope of vision-related opportunities, including Postdocs, Research Associates, Director of Research, Glaucoma Specialist, Optical Engineer, Associate Professor, Medical Director and more!

Financial Report

At a meeting held on May 3, 2003, attended by ARVO's Board of Trustees, **Thomas Yorio**, PhD, Vice President-Elect, presented the results of the audit of the financial accounts for the year ended December 31, 2002. Upon the advice of the Finance Committee, the report was accepted as presented. A surplus of \$174,095 was recorded for the year. Please refer to ARVO's Web site at www.arvo.org/financial/financial.asp for a summary report of the 2002 revenue and expenses by major category.

Preparation of the 2004 budget is underway. The Board has approved an increase in dues for 2004 with \$5.00 to support *IOVS/JOV*, as designated by the members eligible to receive *IOVS*, and \$5.00 for all members to support ARVO activities.

Member Demographics		
	2004	2003
Membership	10,509	10,520
US	6,072/58%	6,045/57%
Non-US	4,437/42%	4,475/43%
	2004	2003
AP	443	454
BI	689	678
CL	612	560
CO	1,491	1,472
EY	475	480
GL	1,436	1,303
IM	544	567
LE	468	460
PH	346	370
RC	767	720
RE	2,201	2,060
VI	568	719
VN	465	487

Scientific Resources

Cell Signaling Databases

www.signaling-gateway.org

Check out this free resource for cell signaling research, new jobs and conferences, sponsored by the Alliance for Cellular Signaling and *Nature Publishing Group*.

Clinical Trial Tutorial

www.cme.cancer.gov

New to conducting clinical trials? The NCI has designed a web-based tutorial for those new to cancer and other clinical trial studies. The course contains case studies, sample forms and practical tools.

Guides for The Care and Use of Laboratory Animals

Single copies available free-of-charge in English and Spanish from the Association for the Accreditation and Assessment of Laboratory Animal Care International at www.aadlac.org.

New Online Module on Ethics in Research

<http://poynter.indiana.edu/sas/lb>

The Least of My Brothers was developed by the Poynter Center for the Study of Ethics and American Institutions at Indiana University to dramatize the PHS Syphilis Study at Tuskegee. This project teaches and explores the role that ethics plays in research with human subjects.

NIH Course on Human Research Protection

<http://cme.nci.nih.gov>

This free web-based course will enable physicians, biomedical and behavioral researchers, nurses, and data managers to satisfy the NIH requirements for training in the rights and welfare of human participants in research.

These sites and many other resources are posted on the ARVO Web site under Quick Links: Related Sites.



- Member Directory
- Career Center
- Calendar of Meetings
- Journals and Newsletters
- Meeting Information, Registration and Housing
- Abstract Searches and Guidelines
- Awards and Funding Opportunities
- Membership Information and Renewals

www.arvo.org

Let your Colleagues Know!

The ARVO Web site is available to post events of interest to our members at no charge. Whether they be "Members in the News", meetings for the Calendar or funding opportunities, please forward the information to web@arvo.org. All materials are subject to review and approval prior to posting.

Did you Receive an E-mail from ARVO Recently?

If not, we need your correct e-mail address! Check the online Member Directory at www.arvo.org and update your e-mail address or e-mail us at mem@arvo.org. With e-mail addresses for more than 90 percent of our members, this has become our primary method of communication. You will not get spammed by ARVO! We do not permit our e-mail list to be used by outside organizations. Update your e-mail address today and do not miss any more important announcements and reminders.

IN MEMORIAM

Theodore P. Williams, PhD, a prominent vision researcher and long time member of ARVO passed away in his sleep on May 2, 2003. Ted was born and raised in Marianna, PA. He attended Muskingum College, where he majored in chemistry-mathematics and played football. While his science was rigorous, many will remember the energy and creativity that he put into teaching. Not surprisingly, he was the recipient of a university-wide award for Excellence in Teaching from Florida State University. He also received special recognition at an international, scientific conference for "Best Contact with the Audience." He is survived by his wife, Ruth Ann, three sons, Philip, Peter and Craig and two daughters, Polly and Laura.

For the latest on ARVO members,
please refer to the ARVO Web site at
www.arvo.org/aboutarvo/membersnews.asp.



Advocacy

NEI Remains Independent Amidst NIH Change



A report prepared and released by a Special Committee of the National Research Council and the Institute of Medicine, at the request of Congress, advised that the National Institutes of Health (NIH) should combine some functions and focus more on interdisciplinary work. The hope is this will allow NIH to address concerns that it has become fragmented and hard to manage.

It was also recommended that the National Institute on Drug Abuse be combined with the National Institute on Alcohol Abuse and Alcoholism, and the National Institute of General Medical Sciences merge with the National Human Genome Research Institute. However, the panel stated a wholesale consolidation of institutes and centers is unnecessary because it would be costly, could slow

decision-making and there are other ways to improve coordination within the NIH.

This is a victory for the National Alliance for Eye and Vision Research (NAEVER) and ARVO, both of whom advocated vigorously for the independence of the National Eye Institute (NEI) and voiced opposition to the proposed folding of NEI into a broader neuroscience institute.

NAEVR past Executive Director, Ed McManus, organized a coalition of more than 20 organizations, most of whom were outside the eye and vision community to present the argument for preserving the independent institutes that make up the NIH. ARVO members **Karla Zadnik**, OD, PhD and **Marco Zarbin**, MD joined McManus in presenting testimony before the Committee.

The Committee's report called for Congress to fund a new program for special projects that would be managed from the NIH director's office. "Despite our conclusion that widespread consolidation of the institutes and centers would be unwise now, we do not expect NIH's organizational structure to remain frozen," committee chair Harold T. Shapiro, a Princeton University professor of economics and public affairs, said in a statement. "We are convinced that many of the goals that might be achieved through large-scale consolidation could be achieved more rapidly and effectively through other organizational mechanisms."

The panel recommended a six-year term for the NIH director and five-year terms for heads of institutes and centers. Currently there are no term limits. Authority to hire and dismiss heads of institutes and centers should be transferred from the Health and Human Services secretary to the NIH director was also recommended by the panel.

In addition to these two new programs, NEI will continue to support its four existing programs: NEI Small Research Grants for Data Analysis (R03), NEI Small Grants for Pilot Research (R03), NEI Clinical Study Planning Grants (R21), and NEI Clinical Vision Research Development Awards (R21). These applications will continue to be reviewed in study sections organized by the NEI.

These six grant programs vary considerably in scientific purpose, the years of support and dollar level provided, the nature and length of the application, and the locus of peer review. Applicants should consult the NEI Web site (Research Funding) at www.nei.nih.gov, to determine which program best meets their specific needs. NEI encourages ARVO members to contact an NEI Program Director at (301) 451-2020 for assistance in selecting the appropriate grant mechanism.

NEI Budget Update

After a long and contentious budget process, the NEI received an appropriation in FY 2003 of \$633.1 million, an increase of \$53.1 million or 9.2 percent compared to FY 2002. The NIH as a whole received \$27.0 billion, an

increase of \$3.5 billion or 14.9 percent, compared to FY 2002. While the NIH increase nearly completed the goal undertaken by Congress in 1998 of doubling the NIH budget in five years, NEI's increase over the same period was approximately 85 percent.

The FY 2004 Budget is still working its way through the halls of Congress. The Administration requested a budget of \$648.3 million for the NEI, an increase of \$15.2 million or 2.4 percent over FY 2003. For NIH, the Administration requested \$27.9 billion, an increase of \$0.9 billion or 3.4 percent. On July 10, 2003, the House narrowly passed the FY 2004 Labor/HHS appropriation bill by a vote of 215 to 208 without Democratic support. The House bill would provide funding identical to the Administration's FY 2004 budget request described above. The Senate Appropriations Committee completed its mark up of the FY 2004 appropriation bill on June 26, 2003. This bill would provide \$657.2 million for the NEI, an increase of \$24.1 million or 3.8 percent compared to FY 2003, and \$28.1 billion for NIH, equal to a \$1.1 billion increase, or 4.1 percent. At press time, the full Senate had yet to take up the Labor/HHS appropriations bill where action is expected to be contentious, particularly in regards to funding for the Department of Education, which is also included in the massive bill.

FY 2003		FY 2004		
Appropriation		Request	House	Senate
NIH	\$27.0B	\$27.9B	\$27.9B	\$28.1B
NEI	\$633.1M	\$648.3M	\$648.3M	\$657.2M

News From NEI/NIH

THE EYE SITE Tour Continues

The **Traveling Exhibit on Low Vision for Shopping Centers** traveled to Union Station in Washington, DC—the last stop on a four-month tour of the Washington, DC metropolitan area. On July 16, 2003, the local Host Committee held an opening ceremony and vision expo at Union Station, which featured:

- Keynote speakers Elias A. Zerhouni, MD, director of the National Institutes of Health, and **Paul A. Sieving**, MD, PhD, director of the NEI.
- Awards to Congressional champions of vision research, including Senator Tom Harkin (D-IA) and Representative Michael Capuano (D-MA).



PHOTO: ROBERT RUPP

Since **THE EYE SITE** tour was launched in April 2001, the NEI has:

- Provided more than 25 million people in 20 states and the District of Columbia with the opportunity to visit the exhibit and learn about low vision.
- Distributed more than 45,000 publications.
- Worked with more than 65 vision-related host organizations.

Planning is underway now for the 2004 tour. For a tour schedule and for more information on how to sponsor the exhibit in your state, visit the NEI Web site (Education Programs) at www.nei.nih.gov, to complete the online application.

National Advisory Eye Council

Ruben Adler, MD
Roy W. Beck, MD, PhD
Suraj P. Bhat, PhD
Martha C. Constantine-Paton, PhD
Gordon E. Legge, PhD
Mildred M. G. Olivier, MD
Lt. Col. J. Brian Reed, MD (ex officio)
Richard J. Salem, JD
Paul A. Sieving, MD, PhD (Chair)
Lois E. H. Smith, MD, PhD
P. Sarita Soni, OD
J. Wayne Streilein, MD
Janey L. Wiggs, MD, PhD
Karla Zadnik, OD, PhD
Marco A. Zarbin, MD, PhD (ex officio)

ARVO members are indicated in **bold**

NEI Request for Applications

RFA-EY-03-002. Development of Innovative Approaches to Enhance Vision Health Communication. NEI encourages the submission of research grant applications that create, develop, and evaluate health communication strategies aimed at translating vision research advances into improved health.

Projects should be based on current health communication theory, directed toward disease prevention and health promotion, and use novel methods that reach out to public, public health, or professional audiences.

The research should focus on improving utilization of current scientific knowledge in visual disease prevention and treatment. It is expected that applications in response to this RFA will be from interdisciplinary teams of vision scientists and health communication experts knowledgeable about strategies, tactics, development, dissemination, and evaluation of health information based upon scientific discovery. Applications are due November 12, 2003.

For more information on this and other new funding opportunities, please visit the NEI Web site (Research Funding) at www.nei.nih.gov.



National Eye Institute

NIH Programs Repay Student Loans for Health Researchers

The National Institutes of Health (NIH) Loan Repayment Programs offer up to \$35,000 per year to repay student loans of scientists, physicians, dentists, and other health professionals willing to commit to a career in clinical, pediatric, health disparities or contraception and infertility research. Applicants must have doctoral-level degrees and commit to spend at least 50 percent of their time for two years conducting qualified research.

The online application opens September 1 and closes December 31, 2003.

See www.lrp.nih.gov for program information and to apply online.

NEI Offers Two New Grant Programs

The NEI is participating in two new NIH-wide programs for Small Grants (R03) and Exploratory/Developmental Grants (R21). Under these two new programs, NEI will accept investigator-initiated grant applications that cover all aspects of vision research. These applications will be reviewed in study sections organized by the NIH Center for Scientific Review.

NEI Appoints New Program Staff

The NEI Division of Extramural Research has recruited two new Program Directors who will each be responsible for managing a portfolio of NEI grants. Dr. Hemin R. Chin is director of the Ocular Genetics Program, and Dr. Grace L. Shen is director of the Ocular Immunology Program. NEI is very pleased to have recruited individuals with such broad scientific and administrative experience. Drs. Chin and Shen may be reached at (301) 451-2020.

Center for Scientific Review Renames Study Sections

In an effort to make the review focus of study sections more transparent, the Center for Scientific Review (CSR) has given names to several study sections that were previously designated by their Integrated Review Group (IRG) affiliation and a number or letter (e.g., VISA, VISB, and VISC for study sections in the Visual Sciences IRG).

VISA has been renamed Anterior Eye Disease (AED), VISB has been renamed Central Visual Processing (CVP) and VISC has been renamed Biology and Diseases of the Posterior Eye.

Reviewer membership and review focus of these study sections **has not** changed.

Journal of VISION

Check out these articles recently published by the *Journal of Vision*!

The Pattern of Visual Deficits in Amblyopia

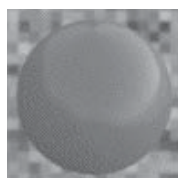
By Suzanne McKee,
Dennis Levi and
J. Anthony Movshon



See <http://journalofvision.org/3/5/5/>

Real-world Illumination and the Perception of Surface Reflectance Properties

By Roland Fleming,
Ron Dror and
Edward Adelson



See <http://journalofvision.org/3/5/3/>

Bootstrapped Learning of Novel Objects

By Mark Brady
and Daniel Kersten



See <http://journalofvision.org/3/6/2/>

Temporal Dynamics of Early Light Adaptation

By Joel Pokorny,
Vincent Sun and
Vivianne Smith



See <http://journalofvision.org/3/6/3/>

Journal of Vision is Growing!

In year three of its existence and on the heels of becoming indexed by MEDLINE/PubMed earlier this year, the *Journal of Vision (JOV)* is experiencing a significant increase in the number of article submissions and publications. *JOV* is on pace to more than double last year's number of submissions. Since March 2003, *JOV* has steadily published a new issue each month with a total of five articles per issue. With many articles currently in production, the boom is just beginning.

Faster Decisions for Authors

In 2003, *JOV* has achieved more than a 30 percent decrease in the average time required to return a first decision to authors. Currently, the average is just over six weeks. Ultimately, Editor-in-Chief Andrew B. Watson, PhD, hopes to reduce this figure to a mere five weeks.

Special Issue Alert

A special issue on "Linking Eye Movements and Perception" is targeted for publication in October 2003. See <http://journalofvision.org/jov/info/lemp.html> for more details.

Don't miss the October 1, 2003 submission deadline for the special issue on "Optics in Vision"! Expect this issue in February 2004. For more information, see <http://journalofvision.org/jov/info/optics.html>.

Want to Submit to *JOV*?

Consult the "Information for Authors" link on the *Journal of Vision* Web site at <http://journalofvision.org>. Then go to <http://jov.manuscriptcentral.com> to submit your manuscript online.

Sign Up for E-mail Alerts

Go to <http://journalofvision.org> and click the "Subscribe" link in the upper right corner to subscribe to *JOV*'s alerting service for new articles and issues. It's fast and free!

Remember...

JOV offers these exciting features:

- published articles freely available to everyone on the Internet without restriction
- rapid review and publication
- indexed in MEDLINE/PubMed
- abundant online journal enhancements such as movies, internal links to content, external bibliographic links, and much more
- papers published in HTML and PDF formats
- access to abstracts presented at other society meetings
- highest quality standards for format and scientific content

Any Questions?

Contact the *JOV* Editorial Office
at support@journalofvision.org
or call (240) 221-2930.



Investigative Ophthalmology & Visual Science

Confused over Impact Factor?

	ProgRefEye Res	IOVS	Exp Eye Res	Curr Eye Res	Ophth	Survey Ophth
2002	5.500	4.091	1.969	1.311	2.863	2.392
2001	5.333	4.172	2.180	1.300	3.066	2.807

How does ISI Calculate Impact Factor?

The 2002 Impact Factor is based on cites in 2002 to articles published in 2001 (1,737 articles) and 2000 (2,567 articles) for a total of 4,304 articles, divided by the number of articles published by *IOVS* in those two years (470 in 2001, 582 in 2000) yielding a total of 1,052. Therefore, $4304/1052 = 4.091$.

IOVS Online Adds New Options

IOVS Online is adding new options for users. For instance, a **palm abstract delivery** service will be available by December 2003. This service will provide the table of contents, titles and abstracts in a format optimized for Palm OS. The **Email-a-friend** option allows a reader to recommend an article by e-mail to a colleague. Other new updates that have been implemented include **GenBank links**, where a hyperlink is created for a GenBank sequence in an article; **GenBank release letters**, which provide release instructions to the GenBank database so author supplied sequences can be released to the public and **CrossRef Matching**, CrossRef's service for creating hyperlinks from cited references to full text articles. Stay tuned for further updates.

Call for Letters to the Editor

Have you read an article in *IOVS* that is of particular interest to you? Or perhaps, one with which you disagree? *IOVS Online* welcomes your submission to Letters to the Editor. Letters are peer reviewed and may correct errors, provide support or agreement and offer different points of view, clarification, or additional information. Letters are published online and referenced in the printed journal. Submit your letters through *IOVS*' online submission system at <http://iovs.manuscriptcentral.com>.

New for 2004: IOVS Reviewer Workshop

For the first time, *IOVS* will sponsor a workshop dedicated to reviewing and educating its reviewers. Some of the potential items for discussion include correctly identifying areas of expertise; preparing and expediting the review process and how to recognizing conflicts of interest; plus adherence to the ARVO Animal Rights Statement and Helsinki Statement.

Make plans to attend this workshop, currently scheduled for Wednesday, April 28, 2004.

Activate your Online Subscription to IOVS

All ARVO members are entitled to view full text articles online and utilize many special features of the online journal.

To activate full online access:

- 1) Go to <http://www.iovs.org/cgi/activate/basic>
- 2) Enter your ARVO membership number (search available at <https://secure.arvo.org/cgi-bin/search/membership.cgi>)
- 3) Click 'Submit' button
- 4) Complete online form as instructed
- 5) Click 'Send Form' button to submit information

You will receive confirmation that the activation was successful. You will be prompted to sign in with your User Name and Password when you click on a 'Full Text' link.

Have you forgotten your User Name or Password?

Go to www.iovs.org/cgi/recnamepwd

For other common inquiries, please visit www.iovs.org/subscriptions/#memsub

Still need help?

Contact the *IOVS* Editorial Office at jsong@arvo.org or (240) 221-2923

OR go to www.iovs.org/cgi/feedback to submit your questions and/or comments online.

Help is Just a Click Away...

Need help in submitting your manuscript?

See <http://iovs.manuscriptcentral.com> and click on the "Get Help Now" button in the upper right hand corner. Three different options give you access to the ScholarOne support department. To view Frequently Asked Questions and their respective answers, check the FAQ Site (found by clicking on "Find Answers") and search these questions by category, keyword or phrase. A second option is to send a question via e-mail (found by clicking on "Ask A Question"). If you would rather speak with someone, the support department is staffed Monday through Friday, 3:00 AM to 5:30 PM EST (434) 817-2040 ext. 167; international callers should dial 001-434-817-2040.

ARVO® Annual Awards



*Jacob G. Sivak,
OD PhD
2003 Proctor
Medallist*

PHOTO: J. MATTHEWS

2004 ARVO Awards Announced

Please join us in congratulating the recipients of the 2004 ARVO Annual Awards. The awards will be presented at the ARVO Annual Meeting, April 25–29, 2004 in Fort Lauderdale, Florida.

Proctor Medal	Charlotte E. Remé, MD University Eye Clinic Zurich
Friedenwald Award	Harry A. Quigley, MD Johns Hopkins University
Weisenfeld Award	David H. Abramson, MD Cornell Medical School
Cogan Award	Simon W. M. John, PhD The Jackson Laboratory
Special Recognition Awards	Yoshihito Honda, MD, PhD Kyoto University/ Osaka Red Cross Hospital
	Robert N. Weinreb, MD University of California San Diego
	Edward L. Howes, MD University of California San Francisco

2005 ARVO Annual Awards

Call for Nominations

Nomination Deadline

March 2, 2004

Members of the vision community are invited to nominate their esteemed colleagues for the prestigious ARVO Awards to be presented at the ARVO Annual Meeting, April 30–May 5, 2005.

Proctor Medal

Outstanding research in the basic or clinical sciences as applied to ophthalmology.

Friedenwald Award

Outstanding research in the basic or clinical sciences as applied to ophthalmology.

Mildred Weisenfeld Award for Excellence in Ophthalmology

Distinguished scholarly contributions to the clinical practice of ophthalmology.

Cogan Award

Contributions to research in ophthalmology or visual sciences directly related to disorders of the human eye or visual system, by a promising individual researcher under 40 years of age.

Kupfer Award

Distinguished public service on behalf of eye and vision research.

Special Recognition Award

Outstanding service to ARVO and/or the vision research community.

For complete nomination information, please visit our Web site at www.arvo.org/awardsfunding/awards.asp.

For more information, contact Barbara Hollis at bhollis@arvo.org or (240) 221-2940.