Program Schedule from the 40th American Society of Andrology Annual Meeting

18 – 21 April, 2015

Salt Lake City, Utah
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SCHEDULE AT A GLANCE

ASA 40th Annual Conference
April 18 – 21, 2015

XXIIIrd North American Testis Workshop
April 15 – 18, 2015

ASA Special Symposium
April 18, 2015

ASA Trainee Directed Mini-Symposium
April 18, 2015

ASA 40th Annual Conference
Forty & Forward
“A Lifetime of Male Reproductive Health”
April 18 – 21, 2015
The Little America Hotel
Salt Lake City, Utah

Program Chairs: Edward D. Kim, MD and William Wright, PhD
Location: Grand Ballroom A-B

FRIDAY, APRIL 17, 2015

2:00 p.m. – 6:00 p.m. Registration/Information Desk Open
Location: Grand Ballroom A Foyer

SATURDAY, APRIL 18, 2015

7:00 a.m. – 7:00 p.m. Registration/Information Desk Open
Location: Grand Ballroom A Foyer

4:00 p.m. – 9:30 p.m. Exhibit Hall Open
Location: Grand Ballroom Reception A-C

11:30 a.m. – 1:00 p.m. ASA LABORATORY SCIENCE FORUM LUNCHEON*
Location: Arizona
Laboratory Disaster Preparedness
Susan A. Rothmann, PhD, HCLD
Fertility Solutions, Inc.
(Ticket required)
*Not CME Accredited

1:00 p.m. – 5:15 p.m. ASA 2015 Special Symposium
(See pg 27 for full schedule)

1:30 p.m. – 4:30 p.m. ASA Trainee Directed
Mini-Symposium*
(See pg 28 for full schedule)
*Not CME Accredited

6:00 p.m. – 6:10 p.m. Welcome and Opening Remarks

6:10 p.m. – 6:30 p.m. Updates from NICHD & NIEHS
Stuart B. Moss, PhD
NICHD
Thaddeus T. Schug, PhD
NIEHS

6:30 p.m. – 6:50 p.m. Andrology Journal Award
Andrology Prize Paper for 2014:
Maselli J, Hales BF, Robaire B.
“Paternal exposure to testis cancer chemotherapeutics alters sperm fertilizing capacity and affects gene expression in the eight-cell stage rat embryo”
Awarded to: Bernard Robaire, PhD
McGill University
(Presented by:
Douglas T. Carrell, PhD, HCLD,
Editor-in-Chief, Andrology)

6:50 p.m. – 7:45 p.m. EMIL STEINBERGER MEMORIAL LECTURE
Genomic Imprinting: Mechanisms and Environmental Sensitivity
Marisa S. Bartolomei, PhD
Perelman School of Medicine,
University of Pennsylvania
(Introduced by: Jay I. Sandlow, MD)

7:45 p.m. – 8:00 p.m. Distinguished Andrologist Award

8:00 p.m. – 9:30 p.m. Welcome Reception
Location: Grand Ballroom Reception A-C

SUNDAY, APRIL 19, 2015

6:30 a.m. – 8:00 a.m. Past President’s Breakfast
Location: Snowbasin

7:00 a.m. – 6:00 p.m. Registration/Information Desk Open
Location: Grand Ballroom A Foyer

7:00 a.m. – 4:00 p.m. Exhibit Hall Open
Location: Grand Ballroom Reception A-C

7:00 a.m. – 8:00 a.m. Continental Breakfast
Location: Grand Ballroom Reception A-C

8:00 a.m. – 9:00 a.m. AUA LECTURE
Reproductive Genetics and the Aging Male
Paul J. Turek, MD, FACS, FRSM
The Turek Clinic
(Introduced by:
Dolores J. Lamb, PhD, HCLD)

9:00 a.m. – 9:15 a.m. Distinguished Service Award
SCHEDULE AT A GLANCE

9:15 a.m. – 10:45 a.m. SYMPOSIUM I – Basic Science

- Stem Cells, Niches and Reproductive Function
  Moderator: Jon M. Oatley, PhD

Heterogeneity of Spermatogonia and Its Relationship to the Stem Cell Niche – A Review
Makoto Nagano, PhD, DVM
McGill University

Sertoli Cells Constrain Pluripotent iPS Cells to Form Spermatogenic Cells in Vivo
Renee A. Reijo Pera, PhD
Montana State University

MicroRNA Regulation of Spermatogonial Development
Wei Yan, MD, PhD
University of Nevada School of Medicine

10:45 a.m. – 11:00 a.m. Quick Break

11:00 a.m. – 12:30 p.m. Poster Session I
Location: Grand Ballroom C
*Not CME Accredited
(See pg 51 for full schedule)

12:30 p.m. – 2:00 p.m. Lunch (on your own)

12:30 p.m. – 2:00 p.m. Mentoring Luncheon Sponsored by the Diversity and Trainee Affairs Committees*
Finding Your Path in Andrology
(not included in general registration: separate registration required)
Location: Wyoming
Susan A. Rothmann, PhD, HCLD
Fertility Solutions, Inc.
*Not CME Accredited

2:00 p.m. – 3:30 p.m. CONCURRENT SESSIONS

Oral Session I: Basic Science
Location: Grand Ballroom A-B
Moderator: William Wright, PhD
(See pg 30 for full schedule)

Oral Session II: Clinical
Location: Arizona
Moderator: Edward Kim, MD
(See pg 31 for full schedule)

3:30 p.m. – 4:00 p.m. Refreshment Break
Location: Grand Ballroom Reception A-C

4:00 p.m. – 4:45 p.m. LECTURE I
Reproductive Toxicology: From Science to Public Policy
Sally Perreault Darney, PhD
US Environmental Protection Agency
(Introduced by: Douglas T. Carrell, PhD, HCLD)

4:45 p.m. – 5:30 p.m. LECTURE II
Fertility Preservation in the Male: A New Clinical Paradigm
Robert E. Brannigan, MD
Northwestern University Feinberg School of Medicine
(Introduced by: Edward D. Kim, MD)

5:30 p.m. – 6:00 p.m. ASA 40th Anniversary Special Presentation I
“From Bellbottoms to Bluetooth: 40 Years of Clinical Andrology”
Terry T. Turner, PhD
University of Virginia Health System
Paul J. Turek, MD
The Turek Clinic

6:00 p.m. – 8:00 p.m. Trainee Forum & Mixer
(All Trainee Travel Awards will be distributed and celebrated at this event)
Location: Olympus

MONDAY, APRIL 20, 2015

7:00 a.m. – 6:00 p.m. Registration/Information Desk Open
Location: Grand Ballroom A Foyer

7:00 a.m. – 3:30 p.m. Exhibit Hall Open
Location: Grand Ballroom Reception A-C

7:00 a.m. – 8:00 a.m. Continental Breakfast
Location: Grand Ballroom Reception A-C

8:00 a.m. – 9:00 a.m. WOMEN IN ANDROLOGY LECTURE
Father’s Lasting Influence: Paternal Environment and the Health of his Future Generations
Janice L. Bailey, PhD
Department des Sciences Animales, Universite Laval
(Introduced by: Sophie La Salle, PhD)

9:00 a.m. – 9:15 a.m. Matthew P. Hardy
Young Andrologist Award
9:15 a.m. – 10:15 a.m.  SYMPOSIUM II – Special Concerns for Older Fathers
Co-Chairs: Peter Chan, MD
Keith A. Jarvi, MD

Therapeutic Advances in the Treatment of Peyronie’s Disease
Wayne J.G. Hellstrom, MD, FACS
Tulane University School of Medicine

Impact of Drugs and Environmental Exposures on Sperm Production
Cigdem Tanrikut, MD
Massachusetts General Hospital

Novel Oral Hormone Replacement Therapies: The Era of the SERMs?
Andrew R. McCullough, MD
Albany Medical College

10:15 a.m. – 10:30 a.m. Quick Break

10:30 a.m. – 11:15 a.m. DIVERSITY LECTURE
Current Trends in the Treatment of Infertility in Men with Spinal Cord Injury
Nancy Brackett, PhD, HCLD
University of Miami Miller School of Medicine
(Introduced by: Maria Christina W. Avellar, PhD)

11:15 a.m. – 12:30 p.m. Poster Session II
Location: Grand Ballroom C
*Not CME Accredited
(See pg 58 for full schedule)

12:30 p.m. – 1:45 p.m. Lunch (on your own)

12:30 p.m. – 1:45 p.m. WOMEN IN ANDROLOGY LUNCHEON AND DISCUSSION*
“Preparing Female Scientists for Successful Transitions to Leadership: Paths to Leadership”
Speaker: Sally Perreault Damey, PhD
Host & Moderator: Sarah Kimmins, BSc, MSc, PhD
(not included in general registration; ticket required)
Location: Wyoming
*Not CME Accredited

1:45 p.m. – 3:15 p.m. SYMPOSIUM III – Male Rejuvenation
Co-Chairs: Mark Sigman, MD
Ajay K. Nangia, MBBS, FACS

What do Patients Want from an Anti-Aging Clinic?
Martin Miner, MD
Alpert School of Medicine,
Brown University

Hormonal Replacement for Male Rejuvenation: Is There Scientific Evidence?
Christina Wang, MD
Harbor-UCLA Medical Center & LA Biomedical Res. Ins.

Dangers Associated with Rejuvenation Therapy
Adrian S. Dobs, MD, MHS
Johns Hopkins University School of Medicine

3:15 p.m. – 3:30 p.m. Refreshment Break
Location: Grand Ballroom Reception A-C

3:30 p.m. – 4:15 p.m. LECTURE III
Meiosis Alleles and the Genetics of Human Infertility
John Schimenti, PhD
Cornell University
(Introduced by: William Wright, PhD)

4:15 p.m. – 5:00 p.m. LECTURE IV
Erectile Dysfunction and Radical Prostatectomy: Where is the Next Breakthrough?
Trinity J. Bivalacqua, MD, PhD
Johns Hopkins Medical
(Introduced by: Alan Diekman, PhD)

5:00 p.m. to 5:45 p.m. EAA LECTURE
Post-Testicular Sperm DNA Oxidative Damage: Are the Chromosomes at an Equal Risk?
Joël R. Drevet, PhD
University of Blaise Pascal
(Introduced by: Ewa Rajpert-De Meyts, MD, PhD)

5:45 p.m. – 6:15 p.m. ASA 40th Anniversary Special Presentation II*
“40 Years and Beyond: An Andrologist’s Guide to the Galaxy”
Sophie La Salle, PhD
Midwestern University
*Not CME Accredited

6:15 p.m. ASA Business Meeting
SCHEDULE AT A GLANCE

7:30 p.m. – 11:00 p.m.  Annual Banquet  Location: Natural History Museum of Utah  
Buses depart from hotel lobby starting at 7:15 p.m.  
(not included in registration fee: ticket required)

TUESDAY, APRIL 21, 2015

7:00 a.m. – 8:00 a.m.  2016 Program Committee Meeting  Location: Casper

7:00 a.m. – 12:00 p.m.  Registration/Information Desk Open  Location: Grand Ballroom A Foyer

7:00 a.m. – 8:00 a.m.  Continental Breakfast  Location: Grand Ballroom Reception A-C

8:00 a.m. – 9:15 a.m.  SYMPOSIUM IV – The Effects of Testosterone on the Heart  
Moderator: Barry Zirkin, PhD

Testosterone and the Heart: Putting the FDA Advisory in Perspective  
Shalender Bhasin, MD  
Brigham and Women’s Hospital

Potential Therapeutic Role for Testosterone in Cardiac Diastolic Dysfunction  
Theodore Abraham, MD, FACC, FASE  
Johns Hopkins University School of Medicine

Genetic Variants of Chromosome Y (chrY) Regulate the Responses of Cardiac Genes to Androgens Via Chromatin-Dependent and Circadian Related Effects  
Christian F. Deschepper, MD  
University of Montreal

9:15 a.m. – 9:30 a.m.  Refreshment Break  Location: Grand Ballroom Reception A-C

9:30 a.m. – 10:30 a.m.  INTERNATIONAL LECTURE  
A Perspective from Downunder: TGBβ Signaling in Testis Development and Spermatogenesis  
Kate Loveland, PhD  
Monash University and MIMR-PHI Institute of Medical Research, Australia  
(Introduced by: TBD)

10:30 a.m. – 12:00 p.m.  SYMPOSIUM V: Novel Male Contraceptive Strategies  
Moderators: Bernard Robaire, PhD  
David Sokal, MD

Na, K-ATPase 4 Isoform as a Target for Male Contraception  
Gustavo Blanco, MD, PhD  
The University of Kansas Medical Center

Retinoic Acid Receptor Antagonists for Male Contraception  
Debra J. Wolgemuth, PhD  
Columbia University Medical Center

Will there be a Role for Male Hormonal Based- Contraception Strategies?  
William J. Bremner, MD, PhD  
University of Washington

12:00 p.m.  MEETING ADJOURNED

Disclaimer Statement  
Statements, opinions and results of studies contained in the program are those of the presenters/authors and do not reflect the policy or position of the ASA nor does the ASA provide any warranty as to their accuracy or reliability.

THANK YOU TO OUR 2015 PROMOTIONAL PARTNER

Platinum Level:  
AbbVie
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President’s Welcome

Forty years! The American Society of Andrology is now 40 years old. While 40 often signifies the beginning of middle age, there is no evidence that our society is slowing down. That is why I am excited to welcome you to the 40th Annual Meeting of the ASA, entitled “A Lifetime of Male Reproductive Health,” here at the Little America Hotel in Salt Lake City, Utah, April 18 – 21, 2015.

Our Program Chairs, Dr. Edward Kim (University of Tennessee-Knoxville) and Dr. William Wright (Johns Hopkins Bloomberg School of Public Health), have put together a fantastic lineup of speakers, talks, and topics. Additionally, there promises to be cutting edge research presented by our members, trainees and other scientists from all over the world.

Some of the highlights of our upcoming meeting include:

- Special Symposium: Controversies in Testosterone Therapy
- Emil Steinberger Memorial Lecture: Mechanisms and Environmental Sensitivity
- AUA Lecture: Reproductive Genetics and the Aging Male
- Symposia regarding stem cells, reproductive health and aging
- Lectures featuring world-renowned speakers on reproductive toxicology, fertility preservation and more
- Special talks on diversity, women in andrology and male rejuvenation
- European Andrology Association Lecture: Post-Testicular Sperm DNA Oxidative Damage: Are the Chromosomes at an Equal Risk?
- ASA Awards, Trainee Mixer and, of course, the Annual Banquet
- And much more.

An important function of ASA is engaging students in our endeavors. A Mentoring Luncheon is scheduled on Sunday that will examine what it takes to embark on a scientific career. Our membership committee is working diligently to recruit more student members to ASA so please encourage your students to join.

Be sure to attend the Annual Banquet, which will be held at the Natural History Museum of Utah on Monday night, as well as Saturday’s Welcome Reception at 8:00 p.m.

The ASA is a special society, bringing together basic scientists, translational research and clinicians in a unique environment. Thank you for coming to help us celebrate our 40th birthday (remember, 40 is the new 30). Welcome to Salt Lake City!

Jay I. Sandlow, MD
President, American Society of Andrology

Past Presidents of the American Society of Andrology

<table>
<thead>
<tr>
<th>Year</th>
<th>President</th>
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<tbody>
<tr>
<td>1975-1977</td>
<td>Emil Steinberger*</td>
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<td>1977-1978</td>
<td>Don W. Fawcett*</td>
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<td>1978-1979</td>
<td>C. Alvin Paulsen*</td>
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<td>1979-1980</td>
<td>Nancy J. Alexander</td>
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<td>1980-1981</td>
<td>Philip Troen</td>
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<td>Richard M. Harrison</td>
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<td>Richard J. Sherins</td>
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<td>Andrzej Bartke</td>
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<td>Rudi Ansbacher</td>
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<td>Anna Steinberger</td>
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<td>William D. Odell</td>
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<td>1987-1988</td>
<td>Larry L. Ewing*</td>
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<td>C. Wayne Bardin</td>
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<td>Rupert Amann</td>
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<td>Howard Nankin</td>
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<td>David W. Hamilton</td>
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<td>Ronald S. Swerdloff</td>
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<td>Bernard Robaire</td>
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<td>Glenn R. Cunningham</td>
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<td>Marie-Claire Orgebin-Crist</td>
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<td>Jon L. Pryor</td>
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<td>Gail S. Prins</td>
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<td>William J. Bremner</td>
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<td>Sally Perreault Darney</td>
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<td>Christina Wang</td>
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<td>Terry R. Brown</td>
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<td>Wayne J.G. Hellstrom</td>
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<td>Dolores J. Lamb</td>
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<td>Paul J. Turek</td>
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<td>2011-2012</td>
<td>Gail A. Cornwall, PhD</td>
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<td>2012-2013</td>
<td>Donna L. Vogel, MD, PhD</td>
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<td>2013-2014</td>
<td>Erwin Goldberg, PhD</td>
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*Deceased

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Andrology, 2015, Supplement, 6
WHEREAS, the American Society of Andrology (ASA) is a unique scientific society that brings together basic scientists, translational scientists, physicians and veterinarians to share scientific advances, discuss emerging male reproductive health issues and problems, and effectively communicate the latest science and technology to patients; and

WHEREAS, the ASA will celebrate its 40th anniversary at its annual meeting being held in Salt Lake City, April 18-21, 2015, by honoring its rich history and discussing the endless possibilities of the future; and

WHEREAS, over the last 40 years, scientists and clinicians from the ASA have played key roles in the research and implementation of major advances in Infertility Intervention; Assisted Reproductive Technologies; Contraception; Reproductive Toxicology; Male Sexual Development; Male Sexual Function; Testicular Cancer and Prostate Cancer; and

WHEREAS, Salt Lake City is pleased to welcome the American Society of Andrology, an international leader in the promotion, education and discovery of male reproductive health.

NOW, THEREFORE, I, Ralph Becker, Mayor of Salt Lake City, do hereby proclaim April 18, 2015 as

ANDROLOGY AWARENESS DAY IN SALT LAKE CITY

Dated ____________ 5th _______ of ___________ March ____________, 2015

______________________________________________________________
MAYOR
April 18, 2015

Dear Members of the American Society of Andrology,

As governor of the great state of Utah, I extend a warm welcome to Salt Lake City. It is our pleasure to host you here as you celebrate your organization’s 40th Anniversary.

I commend your leadership in advancing education and medical research of male reproductive health. In particular, your efforts to disseminate knowledge through scholarship, academic collaboration, and public health promotion help improve men’s health and make a positive difference people’s lives. In addition, your programs to encourage young people to pursue science and medical careers in andrology, including veterinary medicine, through mentoring, scholarships, and student membership are noteworthy. Thank you for your valuable service in Utah and throughout the country.

Utah offers what we call “Life Elevated.” During your stay, I encourage you to take advantage of world-class shopping at The Gateway and City Creek shopping areas and Park City’s historic Main Street, and enjoy diverse offerings at a bevy of fine restaurants, and various sports and arts events, as well our beautiful mountain ski resorts and Olympic venues.

Again, congratulations on the 40th Anniversary of the American Society of Andrology. Best wishes for a successful conference and a memorable visit in Utah.

Sincerely,

[Signature]
Gary R. Herbert
Governor
American Society of Andrology

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Jay I. Sandlow, MD

**Vice President**
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**Secretary**
Jacquetta M. Trasler, MD, PhD

**Treasurer**
Rex A. Hess, MS, PhD

**Past President**
Erwin Goldberg, PhD

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Mary Samplaski, MD and Luke Simon, PhD

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**Basic Science Workshop**
Kate Loveland, PhD; Clayton, VIC Australia (2014 Chair)

**Basic Science Workshop 2015**
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George L. Gerton, PhD; Philadelphia, PA (Vice Chair)

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**Ethics Committee**
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**Finance Committee**
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Robert S. Viger, PhD; Quebec City, QC, Canada (Co-Chair)

**Future Meetings Committee**
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**Industrial Relations Committee**
Mohit Khera, MD; Houston, TX

**International Liaison Committee**
Patricia S. Cuasnicu, PhD; Buenos Aires, Argentina

**Journal Committee**
Rex A. Hess, MS, PhD; Urbana, IL

**Journal Editors**
Douglas T. Carrell, PhD, HCLD; Salt Lake City, UT (Editors-In-Chief)
Ewa Rajpert-De Meyts, MD, PhD; Copenhagen, Denmark (Editors-In-Chief)

**Laboratory Science Forum**
David S. Karabinus, PhD, HCLD; Manassas, VA

**Liaison Committee**
Cristian O’Flaherty, PhD; Montreal, QC, Canada

**Membership Committee**
Alan Diekman, PhD; Little Rock, AR
Sijo J. Parekkatil, MD; Clermont, FL (Co-Chair)

**Nominating Committee**
Erwin Goldberg, PhD; Evanston, IL

**Program Committee**
Edward D. Kim, MD; Knoxville, TN (Co-Chair)
William Wright, PhD; Baltimore, MD (Co-Chair)

**Public Affairs and Policy Committee**
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**Special Symposium**
Mohit Khera, MD; Houston, TX (Co-Chair)
Tobias S. Kohler, MD, MPH, FACS; Springfield, IL (Co-Chair)

**Testis Workshop**
Jacqueta M. Trasler, MD, PhD; Dorval, QC, Canada
Leslie Lynn Heckert, PhD; Kansas City, KS (Vice Chair)

**Trainee Affairs**
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Sophie La Salle, PhD; Downers Grove, IL (Co-Chair)

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**NOTICE TO READERS**

Every effort has been made to ensure that the information printed here is correct; however, details are subject to change.
The Winter Olympics made Salt Lake City a prime travel destination in 2002. The revitalization done in preparation for the Games is still very much a part of the area. With its gorgeous setting between the Wasatch Mountains and the Great Salt Lake, Salt Lake City is also a prime destination for travelers interested in outdoor sports. In the winter, skiing is the most popular, but visitors can always enjoy some great hiking, biking and climbing just outside the city.

**ATTRACTIONS**
Salt Lake City is the headquarters of the Church of Jesus Christ of Latter-day Saints, and many major tourist attractions focus on LDS history. If you’re looking for something unique to Salt Lake, stop in and research your family history. One of Salt Lake’s many nicknames is “Genealogy Capitol of the World.” You can take in the city’s historic sites and points of interest on a guided bike tour or carriage ride around downtown Salt Lake. History buffs will want to check out Temple Square which is Salt Lake’s most popular tourist attraction. Geologists might be more interested in the Great Salt Lake.

**SHOPPING**
From high-end products, to rocks, to wool, to Utah art, and British foods, chocolates, and goodies, Salt Lake City’s shopping has a lot to offer. Salt Lake City and shopping have gone hand in hand for over a century. The first department store in the United States opened for business in 1868. Today the Salt Lake Valley offers plenty of possibilities for terrific shopping excursions, including malls, shopping villages, specialty shops, antiques and collectibles, books and music, factory outlet malls and outdoor shopping and much more.

**DINING/NIGHTLIFE**
Salt Lake City has a surprisingly diverse assortment of cafes and restaurants. From great American classics to dining options from every corner of the world, you will find exactly what you are craving for breakfast, lunch, or dinner. Eat hearty to keep up your energy – Salt Lake also boasts a vibrant nightlife with nightclubs, sports bars, piano bars, pubs and martini bars.

**WEATHER**
Salt Lake City weather in the month of April is characterized by rising daily high temperatures, with daily highs increasing from 56°F to 65°F over the course of the month.

**OUTDOOR RECREATION**
The area around Salt Lake City is breathtaking in its natural beauty, whether you hike and bike through local canyons and national parks, ride through the forests on horseback or float above the world by hot-air balloon. And don’t miss the breathtaking Red Butte Gardens, to gaze out over the Salt Lake Valley or enjoy seasonal floral exhibits. You can also go out into the wilderness with guided fishing and wildlife experiences and river expeditions.

**ARTS AND CULTURE**
Salt Lake City is home to the Utah Museum of Contemporary Art, which features current artists both local and international, and the Utah Museum of Fine Arts, which offers art from across thousands of years of human history. If you prefer to stay outdoors, check out the Gilgal Sculpture Garden to see the strange and fascinating sculptures of Thomas Battersby Child, Jr. And don’t forget Salt Lake City’s museums, which cover an incredible array of subjects – from the Natural History Museum of Utah to Fort Douglas Military Museum to Classic Cars International. Traveling with family? Don’t miss Discovery Gateway: The Children’s Museum of Utah, a 60,000 square-foot discovery center featuring fun, interactive learning.

**Registration/Information Desk Hours are as follows:**
- **Friday, April 17, 2015:** 2:00 p.m. – 6:00 p.m.
- **Saturday, April 18, 2015:** 2:00 p.m. – 7:00 p.m.
- **Sunday, April 19, 2015:** 7:00 a.m. – 6:00 p.m.
- **Monday, April 20, 2015:** 7:00 a.m. – 6:00 p.m.
- **Tuesday, April 21, 2015:** 7:00 a.m. – 12:00 p.m.

**Exhibit Hall Hours are as follows:**
- **Saturday, April 18, 2015:** 4:00 p.m. – 9:30 p.m.
- **Sunday, April 19, 2015:** 7:00 a.m. – 4:00 p.m.
- **Monday, April 20, 2015:** 7:00 a.m. – 3:30 p.m.
The American Society of Andrology 2015 Annual Conference will be held at The Little America Hotel where special room rates have been arranged for meeting attendees.

The Little America Hotel
500 S Main St.
Salt Lake City, UT 84101
Main: (801) 596-5700
Fax: (801) 596-5911
Website: www.saltlake.littleamerica.com

Room Rate: $174.00
Hotel Deadline: March 16, 2015
Reservations: (800) 437-5288

Room Rate
ASA has negotiated a discounted rate of $174.00 per night plus tax (currently 12.6%) at the Little America Hotel.

Hotel Deadline
The deadline to receive the ASA group rate is March 16, 2015. ASA encourages you to make your reservation early, as the hotel and discount block may sellout before this date. After this date, reservations will be accepted based on availability and higher rates may apply.

Reservations
Attendees are responsible for making their reservations by calling the hotel at (800) 437-5288. Please note that discounted rates are not available online. Please reference the ASA to receive the discounted rate.

Hotel Deposit and Cancellation Policy
A deposit equal to one night’s stay is required to hold a reservation. These deposits are fully refundable if the hotel is notified 24 hours prior to arrival and a cancellation number is obtained.

TRAVERSE INFORMATION

Salt Lake City International Airport is located about four miles (6.4 km) west of Downtown Salt Lake City, Utah.

Taxi Cab Services
Taxi service booths are located outside of door #7 in Terminal One and door #11 in Terminal Two. Services for passengers with disabilities are readily available, though it is recommended to make advance reservations.

Avis® Rent-A-Car is the official rental car company for the ASA 40th Annual Conference. For reservations, please call (800) 331-1600 and use the code “J901055” to receive the discounted rates.

Avis® Rent-A-Car

Parking
The Little America offers complimentary self parking and valet parking for $7.00 per day. Please note that rates are subject to change.
SPECIAL EVENTS

Laboratory Science Forum Luncheon
Disaster Preparedness “Surviving Sandy: Lessons in Disaster Planning and Recovery for Labs, Offices and Institutions”
Date: Saturday, April 18, 2015
Time: 11:30 a.m. – 1:00 p.m.
Location: Arizona
Speaker: Susan A. Rothmann, PhD, HCLD
Description: All labs, whether clinical or research oriented, medical practices, and businesses should have plans to face and recover from disasters. Recent high profile events such as Hurricane Sandy, Hurricane Katrina and the 9/11 attacks impacted many people in many locations and challenged day-to-day operations and recovery. But more common perils such as building fires, pandemics and local power outages also threaten operations. In this year’s Laboratory Science Forum presentation, Dr. Susan Rothmann will use Hurricane Sandy’s impact on her lab and manufacturing company in northeast Ohio as a case lesson for preparedness (or the lack of it!) and highlight lessons learned from other disasters experienced by ASA members. Join us for lunch and learn the critical roles that good disaster plans play in recovery and loss prevention. Key elements of disaster plans will be described.
Cost: $35.00 for Attendees (Member/Non-Member). Please sign up for this event on the registration form.

ASA Welcome Reception
Date: Saturday, April 18, 2015
Time: 8:00 p.m. – 9:30 p.m.
Location: Grand Ballroom Reception A-C
Description: Join us for a welcome reception to connect with friends and colleagues. Admission to the reception is included in your ASA meeting registration fee; however, it is not included if you are only attending the Testis Workshop.
Dress: Business casual or casual attire is appropriate
Cost: One ticket included in ASA registration; $25.00 for additional tickets. Please sign up for this event on the registration form.

Mentoring Luncheon Sponsored by the Diversity and Trainee Affairs Committees
“Finding Your Path in Andrology”
Date: Sunday, April 19, 2015
Time: 12:30 p.m. – 2:00 p.m.
Location: Wyoming
Speaker: Susan A. Rothmann, PhD, HCLD
Description: The field of andrology has many paths to career success. Dr. Rothmann will discuss her path from hematology research to clinical lab andrologist to andrology entrepreneur. The presentation will highlight critical self-assessment tools for creating a personal pathway and identity.
Cost: $25.00 for Trainees, $35.00 for Attendees (Member/Non-Member). Please sign up for this event on the registration form.

ASA Trainee Forum and Mixer
Date: Sunday, April 19, 2015
Time: 6:00 p.m. – 8:00 p.m.
Location: Olympus
Description: The ASA Trainee Forum and Mixer provides an opportunity for trainee members to meet other trainees, as well as more established members of the society. This is a relaxed, informal event with appetizers, beer and wine provided. Senior members of the society will be present in this informal forum and discussion group setting to answer your questions about relevant topics such as grant writing, searching for a post-doctor job, alternative PhD career paths, succeeding in the clinic or lab, etc.
Cost: Complimentary; all members of the society are welcome. Please sign up for this event on the registration form.

Women in Andrology Luncheon and Discussion
“Preparing Female Scientists for Successful Transitions to Leadership: Paths to Leadership”
Date: Monday, April 20, 2015
Time: 12:30 p.m. – 1:45 p.m.
Location: Wyoming
Host: Sarah Kimmins, BSc, MSc, PhD
Speaker: Sally Perreault Darney, PhD
Description: Designed for ASA’s female contingent, in this workshop-style luncheon we will be guided by invited speakers as we explore the characteristics of successful leaders, models for leadership and the dimensions of centered leadership.
Suggested readings and resources:
Lean In: Women, Work and the Will to Lead. Sheryl Sandberg and Nell Scovell
Cost: $25.00 for Trainees, $35.00 for Attendees (Member/Non-Member). Please sign up for this event on the registration form.

ASA Annual Banquet
Date: Monday, April 20, 2015
Time: 7:30 p.m. – 11:00 p.m.
Location: Natural History Museum of Utah
Cost: $75.00 for Attendees (Member/Non-Member), $35.00 for Trainees. The Annual Banquet will be held at the Natural History Museum of Utah. The Museum’s signature Canyon and Terrace Room, offering an architecturally dramatic interior and stunning views, perfect for the night’s event. Includes dinner; beer, wine, and soft drinks; and entertainment. Please sign up for this event on the registration form.
Message from the Program Co-Chairs

Friends and colleagues,

Welcome to the 40th Annual Meeting of the American Society for Andrology!

Since 1976, this society has provided a unique forum for basic scientists and clinician-scientists to discuss the most recent findings about the normal functioning of the male reproductive system, and the biological bases for diseases of this system. The program for this 40th meeting continues and expands that tradition. During the next three days, our lecturers will discuss subjects ranging from the genetics and epigenetics of the developing gamete, to clinical care for older fathers and men undergoing chemotherapy, to the translation of basic research to public policy. Additionally, the two poster sessions greatly expand the scientific breadth of this meeting and provide everyone with exciting opportunities for new scientific collaborations.

This meeting would not have happened without the support of the past and present presidents of the ASA, Erv Goldberg and Jay Sandlow and the many colleagues who suggested topics and speakers for this meeting. We are particularly indebted to Steve Schrader and the Archives Committee for their contribution to the 40th anniversary of the ASA content in the program. Finally, we thank WJ Weiser & Associates for their expert handling of the logistics of this meeting.

Finally, we would like to extend a special greeting to those of you who are attending for the first time the annual meeting of the American Society for Andrology. This society is unique not only because it brings basic scientists and clinician-scientists together to discuss a single topic, but also because almost all who attend have a special enthusiasm for their science and that of their colleagues. You and your science are very welcome here and we hope that you will return often to share your insights and enthusiasm about male reproductive biology and how this underpins a man’s health.

Enjoy the meeting and Salt Lake City!

Bill Wright
William Wright, PhD

Edward Kim
Edward D. Kim, MD

PROGRAM COMMITTEE
Edward D. Kim, MD (Co-Chair)
William Wright, PhD (Co-Chair)
John K. Amory, MD, MPH; Seattle, WA
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Robert Edward Brannigan, MD; Hinsdale, IL
Patricia S. Cuasnicu, PhD; Buenos Aires, Argentina
Jurrien Dean, MD; Bethesda, MD
Alan Diekman, PhD; Little Rock, AR
George L. Gerton, PhD; Philadelphia, PA
Michael D. Griswold, PhD; Pullman, WA
Mary Ann Handel, PhD; Bar Harbor, ME
Wayne J.G. Hellstrom, MD FACS; New Orleans, LA
Mohit Khera, MD; Houston, TX
Sarah Kimmins, PhD; Ste-Ann-de-Bellevue, QC, Canada
Sophie La Salle, PhD; Downers Grove, IL
Peter Liu, MBBS, PhD; Torrance, CA
Martin M. Matzuk, MD, PhD; Houston, TX
John McCarrey, PhD, BS, MS; San Antonio, TX
Jon Oatley, PhD; Pullman, WA
Sally Perreault Darney, PhD; Cary, NC
Bernard Robaire, PhD; Montreal, QC, Canada
Jay I. Sandlow, MD; Milwaukee, WI
Paul Ray Shin, MD; Washington, DC
Donald J. Tindall, PhD; Rochester, MN
Jacquetta M. Trasler, MD, PhD; Montreal, QC, Canada
Wei Yan, MD, PhD; Reno, NV

Special Symposium
Mohit Khera, MD; Houston, TX (Co-Chair)
Tobias S. Köhler, MD, MPH, FACS; Springfield, IL (Co-Chair)
Emil Steinberger Memorial Lecture Award

Marisa S. Bartolomei received her BS in biochemistry at the University of Maryland and then obtained her PhD from the Johns Hopkins University School of Medicine under the guidance of Dr. Jeffry Corden. She trained as a postdoctoral fellow with Dr. Shirley Tilghman at Princeton University. In 1993, Dr. Bartolomei was appointed as an assistant professor of cell and developmental biology at the University of Pennsylvania Perelman School of Medicine and was promoted to associate professor with tenure in 1999 and professor in 2006. In 2006, Dr. Bartolomei received the Society for Women’s Health Research Medtronic Prize for Contributions to Women’s Health. In 2011, Dr. Bartolomei received the Jane Glick Graduate School Teaching Award for the University of Pennsylvania School of Medicine and a MERIT award. She was elected as a Fellow of the American Association for the Advancement of Science in 2014. Dr. Bartolomei participates extensively in graduate and medical education, having trained numerous pre- and postdoctoral students, clinicians and other health care professionals. She is a member of the Human Molecular Genetics and Molecular and Cellular Biology editorial boards and is an associate editor for *PLOS Genetics*. Dr. Bartolomei’s research addresses the epigenetic mechanisms of genomic imprinting and X inactivation, as well as the impact of adverse environmental insults on epigenetic gene regulation using the mouse as a model.

Serono Lectureship Recipients

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<tr>
<th>Year</th>
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<tr>
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<td>C. Alvin Paulsen</td>
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<td>1981</td>
<td>Pierre Soupart</td>
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<td>1982</td>
<td>Kevin J. Catt &amp; Maria L. Dufau</td>
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<td>1983</td>
<td>J. Michael Bedford</td>
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<td>C. Wayne Bardin</td>
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<td>Roger Guillemin</td>
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<td>David C. Page</td>
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<td>Yves Clermont</td>
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<td>Leroy Hood</td>
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<td>Michael D. Griswold</td>
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<td>2003</td>
<td>Victor D. Vacquier</td>
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ASA Lectureship Recipients

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<tr>
<td>2004</td>
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<td>David Page</td>
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<td>Haifan Lin</td>
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<td>2009</td>
<td>Blanche Capel</td>
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Emil Steinberger Memorial Lecture Recipients

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<tr>
<td>2010</td>
<td>Andrew Sinclair</td>
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<td>Leendert Looijenga</td>
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<td>2012</td>
<td>William F. Crowley, Jr.</td>
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<td>2013</td>
<td>Deborah O’Brien</td>
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<td>2014</td>
<td>Rudolf Jaenisch</td>
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*The Emil Steinberger Memorial Lecture Award is sponsored by the Emil Steinberger Endowment Fund.*
Deborah O’Brien is a Professor in the Department of Cell Biology & Physiology and the Department of Pediatrics at the University of North Carolina (UNC) School of Medicine in Chapel Hill. She is a member of the Laboratories for Reproductive Biology, the Curriculum in Genetics and Molecular Biology and the Lineberger Comprehensive Cancer Center at UNC. Dr. O’Brien grew up in Louisville, Kentucky, and completed her BS in Biology at the University of Dayton. She then moved to Boston where she obtained her PhD in Physiology from Harvard (1979), followed by postdoctoral studies in the Laboratory of Human Reproduction and Reproductive Biology at Harvard Medical School. Her graduate and postdoctoral research was supported by individual fellowships from the Danforth Foundation, NSF and NIH. Dr. O’Brien was a Senior Staff Fellow in the Gamete Biology Group, Laboratory of Reproductive and Developmental Toxicology at the NIH National Institute of Environmental Health Sciences, before becoming a UNC Tar Heel in 1989. She teaches both graduate and medical students and includes young scientists from undergraduates through junior faculty in her research program.

Dr. O’Brien investigates molecular and cellular mechanisms that regulate spermatogenesis and sperm function. A major focus of her current research is sperm energy metabolism, particularly the function of glycolytic isoforms with restricted expression in the male germline. Analysis of GAPDHS knockout mice provided the first in vivo evidence that glycolysis is essential for sperm motility and male fertility, and laid the foundation for her contraceptive drug discovery project. This translational project uses structure-based drug design to identify small-molecule inhibitors of GAPDH, with the long-term goal of developing a non-hormonal contraceptive that directly blocks sperm function. The development of software tools for the quantitative analysis of alterations in sperm motility patterns has been central to these studies. Dr. O’Brien’s GAPDH research was recognized with a Discovery Fast Track Award from GlaxoSmithKline in 2013. In addition, her research team has made significant contributions towards understanding unexplained male infertility in several gene knockout models. Her current research in this area uses a systems genetics approach to explore causes of male infertility. The Collaborative Cross (CC) is a multinational project producing recombinant inbred mouse lines that have greater genomic diversity and provide improved capabilities for the analysis of complex traits. Through extensive phenotyping and high-density genotyping, these studies investigate male infertility that has contributed to the extinction of more than 75% of the CC lines. The high incidence of male infertility and wide range of phenotypic defects observed, combined with the CC genetic architecture, offer a unique opportunity to identify natural variation associated with male infertility. Dr. O’Brien is grateful for grant support of her research program from NICHD, CONRAD and the Andrew W. Mellon Foundation and for the outstanding contributions of her trainees and collaborators.

Recognition for Dr. O’Brien’s research accomplishments includes invitations to speak at several national and international meetings, including the ASA Emil Steinberger Memorial Lecture Award in 2013 and the Women in Andrology Lecture in 2005. As an active member of ASA, Dr. O’Brien has served on the Executive Council and several committees, chairing the Awards Committee, the Finance Committee and the 2004 Program Committee. She has served on the editorial boards of the Journal of Andrology, Endocrinology and Biology of Reproduction (Associate Editor, 2009-2011), the NIH CMIR Study Section (2003-2007) and other NIH grant review panels as an ad hoc member. Her service to the reproductive biology community also includes participation in the Male Reproduction Research Focus Group of the NIH Specialized Cooperative Centers Program in Reproduction and Infertility Research (Co-Leader, 1998-2003), the Executive Committee of the Triangle Consortium for Reproductive Biology, several committees of the Society for the Study of Reproduction, and the organizing committees for six North American Testis Workshops.

Distinguished Andrologists

<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
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<tbody>
<tr>
<td>1976</td>
<td>Roy O. Greep &amp; M.C. Chang</td>
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<td>Robert E. Mancini</td>
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<td>Barry Zirkin</td>
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<td>2012</td>
<td>Erwin Lamb</td>
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<td>2013</td>
<td>Christina Wang</td>
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<td>2014</td>
<td>Gail S. Prins</td>
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The Distinguished Andrologist Award is sponsored by the Eugenia Rosemberg Endowment Fund.

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Distinguished Service Award

Dr. Steven Schrader leads the Reproductive Health Assessment Team for the National Institute for Occupational Safety and Health (NIOSH). NIOSH is one of the Centers of the Centers for Disease Control and Prevention (CDC). Dr. Schrader received his BS (1974), MS (1975), and PhD (1978) from the University of Missouri – Columbia. He completed his Post-Doctoral Research at University of Miami (Florida). He was an assistant professor at Roosevelt University (Chicago) before joining NIOSH in 1983. At NIOSH he established the NIOSH male reproductive health assessment program. His work enabled the NIOSH reproductive health assessment team to conduct numerous occupational field investigations across the US, including Hawaii, and in Canada, China, and Russia. Dr. Schrader’s work on the evaluation of sexual function in bicycle police officers has led to expanded research in this area for male and female bicyclists, and has inspired other aspects of research on the effects of occupational hazards on male sexual function. Numerous improved bicycle saddle designs aimed at alleviating sexual dysfunction have been developed and are now being utilized by cyclists.

Dr. Schrader has been invited to present his research nationally and internationally. The success of his research program has led to collaborative reproductive research with universities, other federal and international agencies. He was asked to speak to the United Nations Commission on Sustainable Development on how endocrine disrupter chemicals can adversely impact reproductive health of men. Dr. Schrader served on the WHO workgroup that prepared and published the WHO Laboratory Manual for the Examination and Processing of Human Semen. He served on the CDC workgroup that prepared the National Public Health Action Plan for the Detection, Prevention and Management of Infertility.

Dr. Schrader has been active in the American Society of Andrology since 1983. He has made over 60 scientific presentations at the ASA meetings. Dr. Schrader has served on the ASA Executive Council and as Secretary. He served on the Program Committee in 1986, 2003, 2004, and 2005. He was elected to the Nominating Committee in 2014 and is on the Endowment Committee. Dr. Schrader’s two biggest passions have been the Andrology Laboratories Committee and the Archives and History Committee. He has chaired the Andrology Laboratories Committee four times and has been a faculty member of the Andrology Laboratory Workshop no fewer than a dozen times. He became Dr. Jean Fourcroy’s photography assistant and since she established the Archives and History Standing Committee in 2001, he has served on that committee. He currently serves as the chair of the Archives and History Committee.

In 2014, Dr. Schrader coordinated a joint meeting of the leadership of both the ASA and CDC to determine common interests and establish mechanisms of interaction between both groups.

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1995 Andrzej Bartke
1996 Philip Troen
1997 Marie-Claire Orgebin-Crist
1998 Rupert P. Amann
1999 David W. Hamilton
2000 Bernard Robaire
2001 Gail S. Prins
2002 Terry T. Turner
2003 Arnold M. Belker
2004 J. Lisa Tenover
2005 Barry Hinton
2006 Barry Zirkin
2007 Sally Perreault Darney
2008 Matthew P. Hardy
2009 Erwin Goldberg
2010 Joel L. Marmar
2011 Christina Wang
2012 Terry R. Brown
2013 Rex A. Hess
2014 Susan Rothmann

Distinguished Service Award is sponsored by the American Society of Andrology.
Jon M. Oatley, PhD is the director of the Center for Reproductive Biology and an associate professor in the School of Molecular Biosciences at Washington State University. Dr. Oatley obtained his PhD from Washington State University in 2004, was a postdoctoral fellow in the laboratory of Dr. Ralph Brinster at the University of Pennsylvania, and began as an independent investigator in 2007. His research focuses on deciphering the mechanisms that regulate formation of the germline stem cell pool in mammalian testes during development and maintenance of the population in adulthood. Because the actions of the germline stem cell pool provide the foundation for continual spermatogenesis, Dr. Oatley’s research is related directly to understanding fundamental process that underpins male fertility. Dr. Oatley has authored more than 30 papers in top-tier journals in the fields of reproductive and developmental biology including PNAS, the Biology of Reproduction, Development, the Journal of Cell Science, and Genes & Development. As an independent investigator, his research program has been funded by multiple grants from the National Institutes of Health and the US Department of Agriculture. Dr. Oatley’s honors include the Dean’s Award for Outstanding Research from the College of Veterinary Medicine at Washington State University, the Baron Lecturer in Reproductive Biology Award from the University of Florida, and the New Investigator Award from the Society for the Study of Reproduction.
Outstanding Trainee Investigator Award

The Outstanding Trainee Investigator Award is given to the ASA trainee member with the best abstract and research presentation at the annual meeting. The award encourages trainee members to submit and present their best work and contribute to the scientific excellence of the society.

The recipient of the 2015 Outstanding Trainee Investigator Award will be announced during the Annual Business Meeting on Monday, April 20, 2015 at 6:15 p.m.

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<th>New Investigator Award Recipients</th>
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<tr>
<td>1983 Thomas T. Tarter</td>
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<td>1984 Peter S. Albertson</td>
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<td>1985 Randall S. Zane</td>
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<td>1986 Mark A. Hadley</td>
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<td>1987 Peter Grosser</td>
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<td>1988 Stuart E. Ravnik</td>
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<td>1989 Tracy L. Rankin</td>
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<td>1990 Donna O. Bunch</td>
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<td>1991 Robert Viger</td>
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<td>1992 John Kirby</td>
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<td>1993 Michael A. Palladino</td>
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<td>1994 Linda R. Johnson</td>
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<td>1995 Mehdi A. Akhondi</td>
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<td>1996 Wei Gu, Daniel B. Rudolph</td>
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<td>1997 Loren D. Walensky</td>
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<td>1998 Dolores D. Mruk</td>
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<td>1999 Jacques J. Tremblay</td>
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<td>2000 Jeffrey J. Lysiak</td>
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<td>2001 Alexander T.H. Wu</td>
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<td>2002 Ebtesam Attaya</td>
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<td>2003 Mustafa Faruk Usta</td>
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<th>Outstanding Trainee Investigator Award Recipients</th>
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<td>2004 Darius Paduch</td>
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<td>2005 Tara Barton</td>
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<td>2006 Liwei Huang</td>
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<td>2007 Steve Tardif</td>
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<td>2008 Duangporn Jamsai</td>
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<td>2009 Catherine Itman</td>
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<td>2010 Michael Elliott</td>
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<td>2011 Matthew Marcello</td>
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<td>2012 Andrew Major</td>
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<td>2013 Mary Samplaski</td>
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<td>2014 Andrew Midzak</td>
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Andrology, 2015, Supplement, 20
Educational Needs & Objectives

40th Annual ASA Meeting
“A Lifetime of Male Reproductive Health”

Educational Needs
Reproductive health starts at birth and continues throughout life. Male fertility can be impacted at multiple stages by numerous factors ranging from genomic imprinting to environmental factors. Increasingly, the role of aging has been recognized as a significant contributor to male reproductive health. New tools, approaches and therapies are becoming available to deal with the regulation of fertility and the improvement of health. The use of these modern approaches requires the integration of physiology, endocrinology, genetics, neurobiology and psychology, along with consideration of lifestyle and environmental exposures. There must be extensive interactions among clinicians and translational scientists in order to both recognize and treat clinical conditions related to male fertility and reproductive health.

The American Society of Andrology 40th Annual Conference will provide a forum for clinicians and basic scientists to exchange ideas and raise new clinically applicable questions that can lead to novel research directions and efficacious therapies. Renowned researchers working in the fields of urology, endocrinology, clinical andrology, genetics, reproductive medicine and reproductive biology will come together to present cutting edge developments in the physiological and molecular foundations of male reproductive function.

Educational Objectives
At the conclusion of the ASA 40th Annual Conference, attendees should be able to:

1. Evaluate the mechanisms of genomic imprinting on male reproductive physiology in relationship to maternal and paternal alleles.
2. Identify the role of aging on specific genetic factors that may impact spermatogenesis and DNA repair pathways.
3. Describe how the stem cell niche regulates the replication and differentiation of spermatogonial stem cells.
4. Identify the role of the somatic sertoli cells in constraining the development of stem cells to the spermatogonial lineage.
5. Describe the role of specific microRNAs in maintenance of the spermatogonial stem cell pool.
6. Describe the science of reproductive toxicology and how to translate benchwork to policy formulation.
7. Recognize appropriate candidates, methodology and utilization of cryopreservation strategies in pediatric and adult cancer patients.
9. Assess the negative impact of drugs and environmental toxins on sperm production and male fertility.
10. Evaluate the potential role of newer oral therapies for the treatment of secondary male hypogonadism.
11. Review the current management of infertility and sperm retrieval techniques in the spinal cord injured male in the era of IVF-ICSI.
12. Describe the perils and pitfalls of the boom in anti-aging therapies.
13. Recognize the effects of single nucleotide polymorphisms on the function and expression of genes required for spermatogenesis.
14. Identify novel and promising approaches to the treatment and prevention of erectile dysfunction after radical prostatectomy.
15. Describe the effect of single nucleotide polymorphisms on the function of genes required for successful spermatogenesis.
16. Identify the effects of endogenous and exogenous testosterone, as well as deficiency, on human cardiac function.
17. Explain the genetic and hormonal basis for male-specific aspects of cardiomyocyte function.
18. Describe the role of the TGF-β signaling in the development and normal function of the testis.
19. Describe recent advances in the targeting of signaling pathways in spermatogenic cells for the purposes of male contraception.
20. Explain recent advances in the development of steroid-based male contraceptives.
21. Identify two genetic abnormalities in sperm DNA that are associated with advanced paternal age (APA).
22. Explain APA associations with miscarriages, preterm birth and fetal death.
23. Describe a chromosomal disorder and a single gene mutation disorder that occur with increased frequency in APA offspring.

ASA Special Symposium
“Controversies in Testosterone Therapy”

Educational Needs
Providers need to be aware of the recent FDA advisory panel regarding testosterone. Specific topics include who should be prescribed testosterone, what truly constitutes hypogonadism, and the risks and benefits of testosterone treatment.

Today the main reason why clinicians do not prescribe testosterone is the fear that it may cause prostate cancer or heart disease. However, there is no compelling data to support this. Many clinicians are unaware of the published data on testosterone and prostate cancer.

Finally, many clinicians are completely unaware of the practices of bodybuilders and testosterone abuse.

Educational Objectives
At the conclusion of the ASA Special Symposium, attendees should be able to:

1. Explain the controversy of the recent FDA panel recommendations.
2. Describe how testosterone affects the heart and overall cardiac function.
3. Identify the cardiovascular and metabolic risks associated with low testosterone and how low testosterone is associated with an increased risk of mortality.
4. Describe the published literature on testosterone and prostate cancer.
5. Identify the cardiovascular and metabolic risks associated estrogen, SHBG levels and the T/E ratio.
6. Describe the effects of testosterone on the prostate and its relative safety in men with prostate cancer.
7. Explain the common practices of bodybuilders as relates to T manipulating hormones and practices.
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ASA 41st Annual Conference
April 2 – April 5, 2016
Astor Crowne Plaza
New Orleans, LA

ASA Special Symposium
April 2, 2016

ASA Basic Science Workshop
April 2, 2016

ASA Andrology Lab Workshop
April 2 – April 3, 2016

ASA Trainee-Directed Mini Symposium
April 2, 2016
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