

# PROCEEDINGS OF SPIE

## ***Fifty Years of Optical Sciences at The University of Arizona***

**Harrison H. Barrett**  
**John E. Greivenkamp**  
**Eustace L. Dereniak**  
Chairs/Editors

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The CID Number appears on each page of the manuscript. The complete citation is used on the first page, and an abbreviated version on subsequent pages.

# Contents

- vii Authors
- ix Conference Committee
- xi Introduction
- xv Tenure and Tenure-Track Faculty and Graduates

---

## SESSION 1 HISTORY OF OSC

- 9186 02 **Optical Sciences Center/College of Optical Sciences: 50 years of excellence (Keynote Paper) [9186-1]**  
James C. Wyant
- 9186 03 **Evolution of the graduate and undergraduate curricula in the College of Optical Sciences [9186-2]**  
Richard L. Shoemaker
- 9186 04 **Inexperienced as we were, it was ours to do! [9186-3]**  
Robert P. Breault
- 9186 05 **OSC in the 1970s: a springboard for a career in optical engineering [9186-4]**  
James E. Harvey

---

## SESSION 2 ASTRONOMICAL AND SPACE OPTICS AT OSC

- 9186 06 **Space optics contributions by the College of Optical Sciences over the past 50 years [9186-5]**  
James B. Breckinridge, Peter Smith
- 9186 07 **Big optics for astronomy and solar energy [9186-6]**  
Roger Angel
- 9186 08 **Large optics fabrication and testing at the College of Optical Sciences [9186-7]**  
James H. Burge

---

## SESSION 3 OPTICAL ENGINEERING AT OSC

- 9186 09 **Infrared at the College of Optical Sciences and in the world [9186-8]**  
William L. Wolfe
- 9186 0A **A page from “the drawer”: how Roland Shack opened the door to the aberration theory of freeform optics [9186-9]**  
Kevin P. Thompson, Jannick P. Rolland

- 9186 0B **Optical Sciences Center at the University of Arizona in the late seventies: times of consolidation** [9186-10]  
Marija Strojnik, Gonzalo Paez, Michelle K. Scholl
- 9186 0C **Past, present, and future of optical design at the College of Optical Sciences** [9186-11]  
José Sasián

---

**SESSION 4 QUANTUM AND NONLINEAR OPTICS AT OSC**

---

- 9186 0D **First 25 years of quantum optics at Optics Sciences Center** [9186-12]  
Murray Sargent III
- 9186 0E **Quantum control and a novel atom-light quantum interface** [9186-13]  
Poul S. Jessen, Brian E. Anderson, Enrique Montano, Daniel Hemmer, Hector Sosa Martinez, Aaron Smith
- 9186 0F **Progress of the quantum nano-optics of semiconductors group at Optical Sciences** [9186-14]  
Ricky Gibson, Michael R. Gehl, Sander Zandbergen, Patrick Keiffer, Jasmine Sears, Galina Khitrova
- 9186 0G **Ultrafast light-matter coupling in condensed and gaseous nonlinear media** [9186-15]  
M. Kolesik, J. M. Brown, K. Schuh, S. W. Koch, J. V. Moloney

---

**SESSION 5 IMAGING AT OSC**

---

- 9186 0H **Image science and image-quality research in the Optical Sciences Center** [9186-16]  
Harrison H. Barrett, Kyle J. Myers
- 9186 0I **History of digital radiology at the University of Arizona** [9186-17]  
M. Paul Capp, Hans Roehrig, Elizabeth A. Krupinski
- 9186 0J **Molecular imaging in the College of Optical Sciences: an overview of two decades of instrumentation development** [9186-18]  
Lars R. Furenlid, Harrison H. Barrett, H. Bradford Barber, Eric W. Clarkson, Matthew A. Kupinski, Zhonglin Liu, Gail D. Stevenson, James M. Woolfenden
- 9186 0K **Information optimal compressive imaging: design and implementation** [9186-19]  
Amit Ashok, James Huang, Yuzhang Lin, Ronan Kerviche

---

**SESSION 6 OPTICAL INSTRUMENTATION AT OSC**

---

- 9186 0L **From the outside looking in: developing snapshot imaging spectro-polarimeters** [9186-20]  
Eustace L. Dereniak
- 9186 0M **Multilayer soft x-ray optics** [9186-21]  
Charles M. Falco
- 9186 0N **Noise, error, and bandwidth in polarimeters** [9186-22]  
J. Scott Tyo

9186 0O **Past and future of wearable augmented reality displays and their applications** [9186-23]  
Hong Hua

---

**SESSION 7 PHOTONICS AT OSC**

---

- 9186 0P **Developments in the photonics program at OSC** [9186-24]  
N. Peyghambarian
- 9186 0Q **A three-decade-long journey at the College of Optical Sciences** [9186-25]  
Dror Sarid
- 9186 0R **Nanophotonic materials and devices: driving the big data engine** [9186-26]  
R. A. Norwood
- 9186 0S **Mechanical effects of light on material media: radiation pressure and the linear and angular momenta of photons** [9186-27]  
Masud Mansuripur

---

**SESSION 8 OPTICAL METROLOGY AT OSC**

---

- 9186 0T **Optical metrology at the Optical Sciences Center: an historical review** [9186-28]  
Katherine Creath, Robert E. Parks
- 9186 0U **History of the Shack Hartmann wavefront sensor and its impact in ophthalmic optics** [9186-29]  
Jim Schwiegerling
- 9186 0V **Half a century of light scatter metrology and counting** [9186-30]  
John C. Stover
- 9186 0W **Interferometry and ophthalmics at the College of Optical Sciences** [9186-31]  
John E. Greivenkamp, Gregory A. Williby, Eric P. Goodwin, Brian C. Primeau, Kyle C. Heideman, Jason D. Micali, Russell T. Spaulding



## Authors

Numbers in the index correspond to the last two digits of the six-digit citation identifier (CID) article numbering system used in Proceedings of SPIE. The first four digits reflect the volume number. Base 36 numbering is employed for the last two digits and indicates the order of articles within the volume. Numbers start with 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B...0Z, followed by 10-1Z, 20-2Z, etc.

|                              |                           |
|------------------------------|---------------------------|
| Anderson, Brian E., 0E       | Scholl, Michelle K., 0B   |
| Angel, Roger, 07             | Schuh, K., 0G             |
| Ashok, Amit, 0K              | Schwiegerling, Jim, 0U    |
| Barber, H. Bradford, 0J      | Sears, Jasmine, 0F        |
| Barrett, Harrison H., 0H, 0J | Shoemaker, Richard L., 03 |
| Breault, Robert P., 04       | Smith, Aaron, 0E          |
| Breckinridge, James B., 06   | Smith, Peter, 06          |
| Brown, J. M., 0G             | Sosa Martinez, Hector, 0E |
| Burge, James H., 08          | Spaulding, Russell T., 0W |
| Capp, M. Paul, 0I            | Stevenson, Gail D., 0J    |
| Clarkson, Eric W., 0J        | Stover, John C., 0V       |
| Creath, Katherine, 0T        | Strojnik, Marija, 0B      |
| Dereniak, Eustace L., 0L     | Thompson, Kevin P., 0A    |
| Falco, Charles M., 0M        | Tyo, J. Scott, 0N         |
| Furenlid, Lars R., 0J        | Williby, Gregory A., 0W   |
| Gehl, Michael R., 0F         | Wolfe, William L., 09     |
| Gibson, Ricky, 0F            | Woolfenden, James M., 0J  |
| Goodwin, Eric P., 0W         | Wyant, James C., 02       |
| Greivenkamp, John E., 0W     | Zandbergen, Sander, 0F    |
| Harvey, James E., 05         |                           |
| Heideman, Kyle C., 0W        |                           |
| Hemmer, Daniel, 0E           |                           |
| Hua, Hong, 0O                |                           |
| Huang, James, 0K             |                           |
| Jessen, Poul S., 0E          |                           |
| Keiffer, Patrick, 0F         |                           |
| Kerviche, Ronan, 0K          |                           |
| Khitrova, Galina, 0F         |                           |
| Koch, S. W., 0G              |                           |
| Kolesik, M., 0G              |                           |
| Krupinski, Elizabeth A., 0I  |                           |
| Kupinski, Matthew A., 0J     |                           |
| Lin, Yuzhang, 0K             |                           |
| Liu, Zhonglin, 0J            |                           |
| Mansuripur, Masud, 0S        |                           |
| Micali, Jason D., 0W         |                           |
| Moloney, J. V., 0G           |                           |
| Montano, Enrique, 0E         |                           |
| Myers, Kyle J., 0H           |                           |
| Norwood, R. A., 0R           |                           |
| Paez, Gonzalo, 0B            |                           |
| Parks, Robert E., 0T         |                           |
| Peyghambarian, N., 0P        |                           |
| Primeau, Brian C., 0W        |                           |
| Roehrig, Hans, 0I            |                           |
| Rolland, Jannick P., 0A      |                           |
| Sargent, Murray, III, 0D     |                           |
| Sarid, Dror, 0Q              |                           |
| Sasián, José, 0C             |                           |



# Conference Committee

## Conference Chairs

**Harrison H. Barrett**, College of Optical Sciences, The University of Arizona (United States)

**John E. Greivenkamp**, College of Optical Sciences, The University of Arizona (United States)

**Eustace L. Derenik**, College of Optical Sciences, The University of Arizona (United States)

## Session Chairs

### 1 History of OSC

**Thomas L. Koch**, College of Optical Sciences, The University of Arizona (United States)

### 2 Astronomical and Space Optics at OSC

**Harrison H. Barrett**, College of Optical Sciences, The University of Arizona (United States)

### 3 Optical Engineering at OSC

**Russell A. Chipman**, College of Optical Sciences, The University of Arizona (United States)

### 4 Quantum and Nonlinear Optics at OSC

**Thomas D. Milster**, College of Optical Sciences, The University of Arizona (United States)

### 5 Imaging at OSC

**Eustace L. Derenik**, College of Optical Sciences, The University of Arizona (United States)

### 6 Optical Instrumentation at OSC

**R. John Koshel**, College of Optical Sciences, The University of Arizona (United States)

### 7 Photonics at OSC

**John E. Greivenkamp**, College of Optical Sciences, The University of Arizona (United States)

### 8 Optical Metrology at OSC

**Stanley Pau**, College of Optical Sciences, The University of Arizona (United States)



# **Introduction**

This conference, held 19–20 August 2014 as part of the SPIE Optics + Photonics Symposium in San Diego, California, celebrated the 50th anniversary of the founding of the University of Arizona's Optical Sciences Center (OSC) by Aden Meinel. The conference surveyed the progression of OSC from a small group of talented faculty to its present status as a world renowned center of learning in optics and photonics.

Since its creation, the Center's primary purpose has been both education and cutting-edge research in the optics and photonics arenas. The College has already graduated over 700 PhD, 1200 MS and 500 BS students. Faculty members were recruited from among the nation's top talent in optical engineering, and this quickly spread to the fields of photonics, quantum optics and image science.

This conference and the papers contained in this book also provide a glimpse into the variety of research topics that our students are exposed to in these disciplines. A group of faculty and other individuals, each representing their affiliated specialty area, presented new research and breakthroughs in science and technology. The papers reflect the growth of the College and its tremendous impact on a variety of scientific fields in education and in research for industry, military and medical applications. Advances in the field of optics, developed at OSC, will significantly impact tomorrow's technology.

The conference sessions were divided into eight topics:

- 1: History of OSC
- 2: Astronomical and Space Optics at OSC
- 3: Optical Engineering at OSC
- 4: Quantum and Nonlinear Optics at OSC
- 5: Imaging at OSC
- 6: Optical Instrumentation at OSC
- 7: Photonics at OSC
- 8: Optical Metrology at OSC

## **History of OSC**

OSC grew out of a national need for more highly trained engineers and physicists in the optical sciences. (Recall that the laser was developed in 1960.) Throughout its 50-year history, OSC has grown and evolved in response to the changing needs for trained optical scientists and engineers. The evolution of the core course education also evolved from topics that were of current interest in industrial and military applications. However from its very beginning, OSC was conceived to cover the full range from optical engineering and applied optics through optical

physics. Initially, only MS and PhD degrees were offered, but eventually, the Center grew to become a College within the University of Arizona, which now offers an ABET accredited BS degree in Optical Science and Engineering. In addition, a very successful distance learning program for graduate degrees has been established.

### **Astronomical and Space Optics at OSC**

This session first reviews the contributions of OSC to space optics, most notably instrumentation for the Pioneer Saturn/Jupiter and Pioneer Venus missions. The earliest programs at OSC involve the fabrication and testing of large optics. The development of the Multiple Mirror Telescope in the 1970s revolutionized the design of astronomical telescopes. OSC and the Steward Observatory Mirror Laboratory continue their collaboration in the manufacture of large astronomical mirrors. The classic polishing techniques have given way to advanced computer controlled machines and highly engineered polishing laps. New measuring methods developed at OSC have enabled accurate metrology of steeply aspheric surfaces, both concave and convex, as well as off-axis segments of these aspheres.

### **Optical Engineering at OSC**

These presentations review OSC's valuable accomplishments in both teaching and research in optical engineering, covering the spectrum from the infrared to visible engineering applications. Particular attention is paid to the significant contributions in optical design and aberration theory. Presentations included the development of key mathematical formulism that take the understanding of optical aberration theory in entirely new directions. Computer-based optical design and optimization is followed from the overnight runs on the University mainframe computer to today's PC and laptop environment allowing a fast and flexible design process.

### **Quantum and Nonlinear Optics at OSC**

This session traces the development of quantum optics, from the vibrant theory community founded by Scully and Lamb to more recent advances in single- and multi- atom quantum control, and their integration into a novel atom-light quantum interface. The semiconductor quantum optics group discusses the work being done with planar micro-cavities, including VCSELs, photonic crystal cavities, and other III-V material structures. Other recent research is being conducted on the effects of intense, ultrafast interactions of light with media, encompassing extreme nonlinear effects ranging from the creation of light filaments to many-body interactions between electronic carriers.

### **Imaging at OSC**

This session covers many aspects of the historical development of imaging and image science at OSC as well as selected current research topics. Several themes emerge. One is the close relation between OSC and the Department of Radiology,

and how it drove new programs, new grants and new faculty hires. A second, and rather obvious theme, is the dramatic impact of computer technology on imaging. Through the mid-1980s, many students and faculty at OSC developed clever analog computers to overcome the limitation of digital computers of the day, but then OSC began leading the development of parallel computers and their application to imaging. In papers at this session we heard how modern computer power can be integrated into systems for molecular imaging and compressive sensing.

A very early development at OSC was methods for measuring and predicting image quality in terms of the scientific or medical goals of the imaging. This made possible a true science of imaging, with established experimental methods and theories with testable predictive power. Today, Image Science is one of four tracks in the PhD program at the College of Optical Sciences, and approximately twenty graduate courses are offered in this area.

### **Optical Instrumentation at OSC**

Over the past 50 years, a large number of optical instruments have been developed at OSC for a myriad of applications. This session reviews a sampling of different instruments developed in recent years, including imaging spectrometers and polarimeters, optics for soft x-rays, as well as wearable augmented reality displays.

### **Photonics at OSC**

The photonics program at OSC began in 1984, focusing on the development of femtosecond laser sources and their use in investigating semiconductor carrier dynamics. The program later expanded into organic photonics, fiber lasers, vertical cavity surface emitting lasers, nonlinear photonics, and optical communications, among other areas. Photonics has been critical to the growth of the Internet, which currently carries tens of exabytes per month via optical fiber. The future growth of information technology, including the transmission and processing of vast amounts of data (thousands of exabytes per month over optical fiber), will require a new class of photonic devices that readily integrate directly with semiconductor circuits and processors. Nanophotonic materials and devices, such as nanophotonic polymer materials and electro-optic polymer/silicon nanowire modulators, will enable us to meet these extraordinary requirements.

### **Optical Metrology at OSC**

Every science requires a metric to establish quality, and this session discusses various methods developed at OSC to measure surface quality and optical properties, essential components of the applied optics. A major thrust of this work is the development of the technology of phase-shifting interferometry. The development of the Shack-Hartmann wavefront sensor had a tremendous influence on

ophthalmic optics. Scattering measurements and scattering properties of optical surfaces and materials were discussed in terms of developments being made at OSC. Finally, recent work in the use of interferometry to characterize ophthalmic components and the human eye are reviewed.

The College of Optical Sciences thanks SPIE for the gracious support provided in hosting the conference and making possible the publication of this special Proceedings volume.

**Harrison H. Barrett  
John E. Greivenkamp  
Eustace L. Dereniak**

# **Tenured and Tenure-Track Faculty of the Optical Sciences Center and the College of Optical Sciences**

**1964-2014**

Brian P. Anderson  
Amit Ashok  
Clarence L. Babcock  
Harrison H. Barrett  
Peter H. Bartels  
Rolf Binder  
Nicolaas Bloembergen  
Jim H. Burge  
James J. Burke  
Russell A. Chipman  
Milorad Cvijetic  
Eustace L. Dereniak  
Michael Descour  
James A. Eyer  
Charles M. Falco  
Mahmoud Fallahi  
B. Roy Frieden  
Jack D. Gaskill  
Hyatt M. Gibbs  
John E. Greivenkamp  
Hong Hua  
Stephen F. Jacobs  
Poul Jessen  
R. Jason Jones  
Galina Khitrova  
Khanh Kieu  
Miroslav Kolesik  
Chris L. Koliopoulos  
R. John Koshel  
Katherine Creath  
Franko Kueppers  
Matthew A. Kupinski  
Willis E. Lamb Jr.

George N. Lawrence  
Rongguang Liang  
H. Angus Macleod  
Masud Mansuripur  
Arvind S. Marathay  
Dean B. McKenney  
Tom D. Milster  
Robert H. Noble  
Robert A. Norwood  
Stanley Pau  
Leilei Peng  
Nasser Peyghambarian  
Murray Sargent III  
Dror Sarid  
José Sasián  
Jim Schwiegerling  
Marlan O. Scully  
Bernhard O. Seraphin  
Roland V. Shack  
Robert R. Shannon  
Richard L. Shoemaker  
Glenn T. Sincerbox  
Philip N. Slater  
Orestes N. Stavroudis  
George I. Stegeman  
Grover Swartzlander  
William Swindell  
Yuzuru Takashima  
Kurtis J. Thome  
J. Scott Tyo  
William L. Wolfe Jr.  
Ewan M. Wright  
James C. Wyant

Any listing of faculty is by necessity incomplete. It does not recognize the significant contributions of the many Joint-Appointment Faculty, Research Faculty and Adjunct Faculty that have served the Optical Sciences Center and the College of Optical Sciences.

# **Graduates of the Optical Sciences Center and the College of Optical Sciences**

**1964-August, 2014**

## **Doctor of Philosophy**

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Abdeq M. Abdi 2005                  | Louri Beregovskii 1999              |
| Chiayu Ai 1987                      | Jill D. Berger 1997                 |
| Hazim Younis Al-Abawi 1982          | Justin Philip Bergfield 2010        |
| Andrew Alexander 1994               | Bruce Edward Bernacki 1992          |
| Kais Al-Marzouk 1982                | John W. Berthold 1976               |
| Joseph Ambrose 1994                 | Jacob Lee Beverage 2003             |
| Douglas W. Amlin 1982               | Stuart F. Biggar 1990               |
| Douglas W. Anderson 1978            | Gabriel Carlisle Birch 2012         |
| Blake Anderton 2014                 | Wiley T. Black 2014                 |
| Ronald L. Antos 1981                | Denise Marie Blanchard 1997         |
| Ismail Emre Araci 2010              | Alan R. Bleier 1984                 |
| Miena Magdi Hakeem Armanious 2010   | Richard P. Bocker 1975              |
| Paul D. Atcheson 1985               | Eric L. Bogatin 1980                |
| Riley W. Aumiller 2013              | Deepak Boggavarapu 1993             |
| Jason M. Auxier 2006                | William Bomberger 1980              |
| David J. Aziz 1995                  | Garret T. Bonnema 2008              |
| Brett Edward Bagwell 2006           | Donald C. Booth 1980                |
| Lu Bai 1998                         | Glenn D. Boreman 1984               |
| Dave Paul Baiocchi 2004             | Brent J. Bos 2002                   |
| Kunjithapatham Balasubramanian 1988 | Robert Boye 2000                    |
| William C. Banyai 1988              | Robert P. Breault 1979              |
| Christoph James Baranec 2007        | James B. Breckinridge 1976          |
| Noah Bareket 1979                   | Peter I. Brick 2001                 |
| Sergio Barraza-Felix 2002           | Lawrence D. Brooks 1982             |
| Frederick O. Bartell 1978           | Francois Brown de Colstoun 1994     |
| Brian J. Batdorf 1991               | Michael P. Browne 1991              |
| Allen Keith Bates 1994              | Stephen D. Browning 1983            |
| James M. Battiato 1998              | Thomas J. Bruegge 1985              |
| Daniel R. Bauer 2012                | Richard A. Buchroeder 1976          |
| Brian Jeffrey Bauman 2003           | James H. Burge 1993                 |
| Neil Anthony Beaudry 2003           | James J. Burke 1972                 |
| Robert G. Bedford 2003              | Guillaume Pascal Nicolas Butel 2013 |
| Bernard W. Bell 1985                | Dale M. Byrne 1978                  |
| Eduardo A. Bendek 2012              | Wenrui Cai 2013                     |

|                                |                                       |
|--------------------------------|---------------------------------------|
| Lonnie K. Calmes 1998          | Brian Comaskey 1982                   |
| Eugene W. Campbell 1994        | Thomas Wright Cooley 1995             |
| Sawyer Duane Campbell 2013     | Curtis A. Corum 2005                  |
| Barbara A. Capron 1986         | Jasmin Cote 1996                      |
| Ellen B. Cargill 1990          | Marie Cote 1995                       |
| James T. Carriere 2004         | Blake M. Coughenour 2014              |
| Timothy J. Carty 1989          | Karlton Crabtree 2010                 |
| Gary E. Carver 1980            | Alan E. Craig 1984                    |
| Kenneth R. Castle 1985         | Cameron James Craigie 1993            |
| Luca Caucci 2012               | Katherine Creath 1985                 |
| Miguel A. Cervantes-Monto 1982 | Blake G. Crowther 1997                |
| Elizabeth Chain 1983           | Jeffrey S. Czapla-Myers 2006          |
| Matthew T. Chang 1998          | Joseph C. Dagher 2006                 |
| Ming-Wen Chang 1975            | Saurav Das 1998                       |
| Rong-Seng Chang 1980           | Carolyn Marie Conner Davenport 1992   |
| Yu-Chun Chang 1999             | Thomas L. Davenport 2002              |
| Karl Chao 1989                 | Martha W. Dawsey 2013                 |
| Hacene M. Chaouch 2011         | Eugenio Manuel De La Rosa Rivera 2004 |
| Sangam Chatterjee 2003         | Brian J. DeBoo 2004                   |
| Souma Chaudhury 2008           | Merritt N. Deeter 1988                |
| Arturo Chavez-Pirson 1989      | Richard Dekany 1994                   |
| Patrick S. Cheatham 1976       | Imelda DeLarue 2003                   |
| Ching-Tai Chen 1982            | Erich E. De leon 2012                 |
| Chungte Bill Chen 1978         | Kenneth W. DeLong 1990                |
| Jyhcheng Chen 1995             | Eustace L. Dereniak 1976              |
| Liying Chen 2004               | Christopher T. DeRose 2009            |
| Tao Chen 2006                  | Matthew W. Derstine 1985              |
| Yi-Chun Chen 2006              | Lewis F. DeSandre 1989                |
| Lu Cheng 1997                  | Michael R. Descour 1994               |
| Yeou-Yen Cheng 1985            | Scott L. Devore 1988                  |
| Kit-Iu Cheong 2007             | Jeremy Todd Dobler 2005               |
| Shuchung Chiao 1996            | Oscar L. Doellner 1991                |
| Matthew D. Chidley 2005        | Michael E. Donovan 2000               |
| Russell A. Chipman 1987        | Dennis Douglas 2014                   |
| Ming-Yee Chiu 1980             | Christian Y. Drouet d'Aubigny 2003    |
| Taeyoung Choi 2008             | Matthew B. Dubin 2002                 |
| Chien Chou 1978                | Heather L. Durko 2014                 |
| Chih-Li Chuang 1991            | Roger L. Easton 1986                  |
| George Cipperly 1992           | Stephen K. Eckhardt 1990              |
| Stephan R. Clark 2000          | Jeffrey E. Ehrlich 1989               |
| Andrew Franklin Clements 2012  | Elliot Gene Eichen 1982               |
| Eugene R. Cochran III 1988     | James T. Eickmann 1998                |
| Donald K. Cohen 1987           | Rania Abd El-Maksoud 2009             |
| Christopher Coleman 1998       | Erin Marie Elliott 2002               |
| D'nardo Colucci 1993           | Kenneth Scott Ellis 1999              |

- Yasufumi Enami 2003  
Muhsin Eralp 2007  
Victor C. Esch 1990  
Joshua Eskin 1997  
Alan Eskovitz 1987  
Li Fan 2006  
Qiang Fang 2012  
Janet S. Fender 1981  
Felix E. Fernandez 1987  
Eric Carl Fest 2008  
Robert D. Fiete 1987  
Donis G. Flagello 1993  
Laurence M. Flath 1994  
Brian D. Fluegel 1992  
Bridget K. Ford 2002  
Marsha Jane Fox 1993  
Jerome B. Franck 1989  
Jesse A. Frantz 2004  
Klaus Freischlad 1986  
Fred F. Froehlich 1996  
Tao-Yi Fu 1984  
Canek Fuentes-Hernandez 2004  
Allan H. Gabel 1988  
Mark Gallagher 1993  
Haiyong Gan 2008  
Robert O. Gappinger 2002  
Kevin Jay Garcia 1999  
Keith Gardner 1980  
Joseph Geary 1984  
Anoop George 2011  
James D. George 2001  
Ronie George 2013  
James A. Georges 2003  
Ronald E. Gerber 1995  
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 Paula Smith 2013  
 Peter H. Smith 2009  
 Warren E. Smith 1985  
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 Robert W. Sprague 1990  
 Paul R. Spyak 1990  
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 Michael Sundheimer 1994  
 Shigeru Suzuki 2008  
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 William C. Sweatt 1978  
 Julian Sweet 2009  
 Kuochou Tai 1984  
 John M. Tamkin 2010  
 Nobuhiko Tamura 1979

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| Anthony Amir Tanbakuchi  | 2009 | Der-Shen Wan          | 1987        |
| Hong Tang                | 1997 | Lirong Wang           | 2010        |
| Shu-Guo Tang             | 2002 | Lon A. Wang           | 1988        |
| James D. Targove         | 1987 | Mark S. Wang          | 1993        |
| Shin-Sheng Tarng         | 1983 | Qing Wang             | 2008        |
| Harry Lee Task           | 1978 | Ran Hong Raymond Wang | 1990        |
| Savas Tay                | 2007 | Tsuei-Lian Wang       | 2012        |
| Byron B. Taylor          | 1997 | You-Jen Wang          | 1983        |
| Christopher P. Tebow     | 2005 | Yuhao Wang            | 2014        |
| Babak Tehranchi          | 1996 | Zhipeng Wang          | 2008        |
| Rebecca J. Theilmann     | 2001 | Mial E. Warren        | 1988        |
| David A. Thomas          | 1980 | Joy K. Watanabe       | 1992        |
| Christopher J. Thompson  | 1984 | Jason P. Watson       | 1999        |
| Kevin P. Thompson        | 1980 | Mathew D. Watson      | 1991        |
| John G. Thunen           | 1970 | Hugo Weichel          | 1972        |
| Anthony J. Ticknor       | 1987 | Chad N. Weiler        | 2008        |
| Henry S. Todd            | 1973 | Steven J. Wein        | 1989        |
| David E. Tolliver        | 1980 | Doreen Weinberger     | 1984        |
| Akira Tomita             | 1980 | Conrad Wells          | 1999        |
| William E. Torruellas    | 1991 | Brian R. West         | 2004        |
| Joseph M. Triscari       | 2000 | John J. Wharton       | 1984        |
| Mary G. Turner           | 1993 | Timothy White         | 1994,       |
| Jennifer A. Turner-Valle | 1998 | Frank R. Whitehead    | 1976        |
| Karen Twietmeyer         | 2007 | David V. Wick         | 1997        |
| Joshua A Udovich         | 2008 | Michael Wiedmann      | 1994        |
| Elaine S. Ulrich         | 2008 | Joshua Thomas Wiersma | 2012 Walter |
| Robert S. Upton          | 2001 | James Wild            | 1988        |
| Valorie S. Valencia      | 1991 | Gregory A. Williby    | 2003        |
| Jesus Daniel Valera      | 1986 | Raymond Gale Wilson   | 1971        |
| John F. Valley           | 1989 | David M. Winker       | 1984        |
| Pouria Valley            | 2010 | Amy M. Winkler        | 2010        |
| Fred J. Van Milligen     | 1985 | Peter L. Wizinowich   | 1989        |
| Eric W. Van Stryland     | 1976 | Kenneth H. Womack     | 1982        |
| Jay S. VanDelden         | 2003 | Dae Wook Kim          | 2009        |
| Corrie J. Vandervlugt    | 2011 | Jianfeng Wu           | 2005        |
| Cynthia L. Vernold       | 1998 | Kuo-Hua Wu            | 2004        |
| Gorden Videen            | 1992 | Tong Xie              | 1997        |
| Alain Villeneuve         | 1992 | Yong Xie              | 2006        |
| Mark Voelker             | 1993 | Xiaodong Xun          | 2001        |
| Curtis E. Volin          | 2000 | Eiji S. Yafuso        | 1997        |
| Richard E. Wagner        | 1976 | Seung H. Yang         | 2009        |
| Chanda L. Walker         | 2002 | Zhenshan Yang         | 2005        |
| Edwin P. Walker          | 1999 | Jie Yao               | 1994        |
| Joe A. Walker            | 1998 | Julius E. Yellowhair  | 2007        |
| Richard Andrew Wall      | 2013 | David A. Yocky        | 1988        |

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Andy Fenglei Zhou 1992  
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Thomas L. Zobrist 2009

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Delmar Dobberpuhl 1973  
Charles Hayslett 1973

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Mahad Abbasi 2012  
Rania Abd El-Maksoud 2006  
Abdeq M. Abdi 2004  
Rukiah S. Abdul-Malik 2007  
Vineeth Abraham 2010  
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