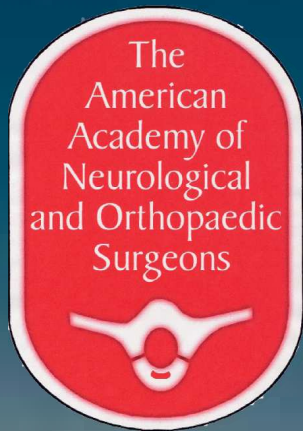


# 42<sup>ND</sup> ANNUAL SCIENTIFIC MEETING



**PROGRAM**

April 27-28, 2018

W LAKESHORE HOTEL



**CHICAGO**



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Welcome from the  
GOVERNOR OF ILLINOIS



OFFICE OF THE GOVERNOR

207 STATE HOUSE  
SPRINGFIELD, ILLINOIS 62706

**BRUCE RAUNER**  
GOVERNOR

April 27, 2018

American Academy of Neurological and Orthopaedic Surgeons  
W Lakeshore Hotel  
644 North Lakeshore Drive  
Chicago, Illinois 60611

Greetings!

As Governor of the State of Illinois, I am pleased to welcome everyone gathered for the 42<sup>nd</sup> Annual Scientific Meeting of the American Academy of Neurological and Orthopaedic Surgeons (AANOS).

Since its inception, AANOS's mission has been to provide continuing medical education of the highest quality to its members and serve as a forum for the sharing of surgical knowledge and expertise. With many prominent surgeons and their guests attending this conference to study the newest and most promising developments in the world of surgery, I am certain this event will go a long way toward furthering your goals into the future, both individually and collectively.

This event also presents an exciting opportunity for everyone in attendance to join together with fellow members of the surgical community to share important information and ideas. I commend you all for your service.

On behalf of the people of Illinois, I offer my best wishes for an enjoyable and informative conference.

Sincerely,

A handwritten signature in black ink that reads "Bruce Rauner".

Bruce Rauner  
Governor, State of Illinois



#IllinoisProud

Illinois200.com

Welcome from the  
MAYOR OF CHICAGO, ILLINOIS



OFFICE OF THE MAYOR  
CITY OF CHICAGO

RAHM EMANUEL  
MAYOR

April 27, 2018

Dear Friends:

As Mayor, and on behalf of the City of Chicago, I am pleased to extend warm greetings to all those gathered for the 42<sup>nd</sup> Annual Scientific Meeting of the American Academy of Neurological and Orthopaedic Surgeons (AANOS).

Since its founding in 1976, the American Academy of Neurological and Orthopaedic Surgeons has worked to improve the quality of care provided to patients in these two specialty fields. AANOS has stayed true to this vision by setting high standards for training, credentialing, and the continuing surgical education in the practice of orthopaedics and neurosurgery.

This year's event will feature many prominent surgeons and guests who will discuss the newest developments in the world of surgery. Together, attendees will focus on the best management and treatment options for Neurological and Orthopaedic diseases and learn about the newest developments in the world of surgery. I commend the American Academy of Neurological and Orthopaedic Surgeons for their tireless efforts in the advancements of surgical techniques.

It is my hope that after learning about and discussing what's new and changing, you will take the time to explore and take advantage of everything Chicago has to offer. An exciting variety of restaurants, nightlife, universities and world-class museums accented by our iconic skyline, incredible lakefront, and historic neighborhoods make Chicago one of the world's greatest cities.

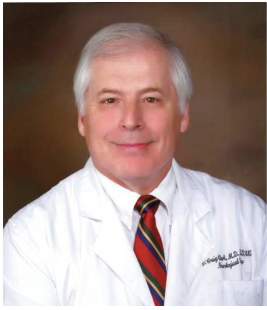
Please accept my best wishes for an enjoyable and informative conference, and much success in the future.

Sincerely,

A handwritten signature in blue ink that reads 'Rahm Emanuel'.

Mayor

**WELCOME FROM THE**  
**AMERICAN ACADEMY OF NEUROLOGICAL AND ORTHOPAEDIC SURGEONS**  
**CHAIRMAN OF THE BOARD**



Dear Colleagues:

It is my pleasure to welcome you to the 42nd Annual Scientific Meeting of the American Academy of Neurological and Orthopaedic Surgeons. We are gathered here in Chicago at the W Lakeshore Hotel for this annual gathering where an exceptional educational program has been prepared.

Our Scientific Organizing Committee has secured a number of highly regarded speakers from the Chicago area and all around the United States. In particular, we welcome the faculty from Northwestern and Loyola University. These invited speakers will update us on a variety of Neurological, Orthopaedic and Spine related topics. I encourage you to review the following pages carefully to learn all about the various invited speakers and their presentations.

I am delighted that in this year's program we are able to include topics such as; Orthopedic War Surgery in the Humanitarian Setting, Spondylectomy for En Bloc Resection of Tumors of the Mobile Spine, Surgical Management of Epilepsy, Infiltrative Gliomas, Mangled Extremity Injuries and Bionic Prosthetics, just to name a few. As always, there are a variety of submitted abstracts from members and non-members alike that will round out our specialty specific sessions.

Please remember that the International College of Surgeons, as our educational partner, has worked closely with our Scientific Organizing Committee to develop additional programming that is of interest to all surgical specialties. On Friday and Saturday afternoon we will join ICS for several sessions including: A Surgeon's Leadership Symposium, an Ethics Symposium and the Trauma and Acute Care Surgery Forum.

I encourage every member of the Academy to peruse the program and participate in as many sessions as possible to earn the maximum number of CME credits. Don't forget to also complete the Needs Assessment survey so that we may continue to provide educational programming that benefits you.

I hope you have a most enjoyable visit here in Chicago for our annual meeting!

Sincerely,

A handwritten signature in black ink that reads "W. Craig Clark". The signature is written in a cursive, flowing style.

**W. Craig Clark**  
**Chair, American Academy of Neurological & Orthopaedic Surgeons**



**INTRODUCING**  
**Mark S. Perlmutter, MD**

**CHAIRMAN OF THE BOARD**  
**AMERICAN ACADEMY OF NEUROLOGICAL**  
**AND ORTHOPAEDIC SURGEONS**

FOR THE TERM COMMENCING  
MAY 1, 2018

After his undergraduate training at The Ohio State University, Mark enrolled there into a combined Veterinary Medicine and Doctoral program in neurophysiology. His clinical interests in human medicine, however, evolved and he soon matriculated medical school from the Thomas Jefferson University in Philadelphia.

Mark chose to remain at both this illustrious institution and at the Pennsylvania Hospital, our nation's first, to complete his Orthopedic Surgery residency program. During this training his very early fascination, and now love for surgery of the hand, had flourished from his very first exposure and has remained as one of his life's "four pillars."

Because his orthopedic upper extremity preparation in Philadelphia was largely focused on electively managed pathologies, he sought out a fellowship program in hand and microsurgery at one of the busiest upper extremity trauma centers in the country.

It was during this productive year at the University of Miami that Mark was exposed to the true art of medicine, genuine service, and his second "pillar." This surgical program served not only as the referral destination for Latin America's most complicated pediatric reconstructive cases, but the foundation for his 501 C-3, Hands Healing Hearts.

Thousands of surgeries in nine countries, however, did little to quell his need to meaningfully contribute towards eliminating the progressively apparent disparity gap he noted between the surgical care available at home and every other country that he has served.

All of Mark's current efforts are now directed towards exploiting modern technologies to effectively close the surgical care gap between low income and high income countries. On behalf of the ICS, he has recently authored and was awarded a seed grant to achieve his goal in developing a global telemedicine framework that will serve to maintain sustainable international training programs.

# American Academy of Neurological and Orthopaedic Surgeons

## Board of Directors

### BOARD CHAIR

**W. Craig Clark, MD, PHD, FACS, FICS**  
Eads, TN

**Manuel Alzugaray, MD, FICS**  
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Columbus, OH

**David Weiss, DO**  
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**Anca Bereanu, MD**  
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**David Wren Jr, MD, FICS**  
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**Gene Bolles, MD, FICS**  
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**Mark Perlmutter, MD, FICS**  
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**Charles, Xeller, MD, FICS**  
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**Maxime Coles, MD, FICS**  
Coffeyville, KS

**Sudhir Rao, MD**  
Big Rapids, MI

**Lucia Zamorano, MD, FICS**  
Birmingham, MI

**Clara Raquel Epstein, MD, FICS**  
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**R. Blaine Rawson, MD, FICS**  
Petosky, MI

**Honorary**  
**Kazem Fathie, MD, FICS**  
Las Vegas, NV

**Jeffrey Epstein, MD, FICS**  
Babylon, NY

**Quirico Torres, MD, FICS**  
Abilene, TX

## 2018 Scientific Organizing Committee

### CO-CHAIRS

**Maxime J.M. Coles, MD, FICS**  
Orthopaedic Surgeon  
Coffeyville, KS

**Lucia Zamorano, MD, FICS**  
Neurosurgeon  
Birmingham, MI

### MEMBERS

**Jeffrey Epstein, MD, FICS**  
Neurosurgeon  
Babylon, NY

**Charles, Xeller, MD, FICS**  
Orthopaedic Surgeon  
Houston, TX

**Mark Perlmutter MD, FICS**  
Orthopaedic Surgeon  
Mechanicsburg, PA

**W. Craig Clark, MD, PHD, FICS**  
Ex-officio  
Eads, TN

### CME ACCREDITATION INFORMATION

**COURSE SPONSOR** International College of Surgeons - United States Section An ACCME Accredited Provider

**Overall Course Objectives** The Annual Scientific Meeting is designed to offer information regarding the latest surgical advancements and technology to address gaps in knowledge that may exist for practicing surgeons in all surgical specialties, residents in training, and allied health professionals. The desired outcome of this program is increased knowledge, better competency in cutting edge treatment modalities, and enhanced treatment decision making. It is the expressed goal of the course to provide enough material that upon completion of the activity the participant can make educated decisions to incorporate the latest surgical techniques and technologies as well as discern when these procedures are warranted to provide optimum patient care.

Topics presented during the Annual Scientific Meeting have been designed to address and improve the attendee's knowledge and skills in the following competencies; patient care or patient-centered care, medical knowledge, practice-based learning & improvement, quality improvement and professionalism.

**Disclosure Policy** It is the policy of the International College of Surgeons-US Section that any individual who is involved in planning or presenting in a program designated for AMA Physician's Recognition Award Category 1

Credit™ must disclose all relevant financial relationships with a commercial interest prior to being included in the final program. This information is disclosed to the audience prior to the activity via the disclosure handout distributed at registration to each attendee. The ICS-US has procedures in place to address a conflict of interest should one arise. Our complete Policy on Commercial Support and Independence is available on FICS Online or by request from Headquarters. Additionally, faculty members are asked to disclose when any discussion of unapproved use of a pharmaceutical or medical device occurs.

**Accreditation** The International College of Surgeons-United States Section is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor Continuing Medical Education for physicians.

**Credit Designation** The International College of Surgeons-United States Section designates this live activity for a maximum of 17 AMA PRA Category 1 Credits. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



# SCIENTIFIC PROGRAM

Thursday

See tickets for location

April 26

6:30 - 9:00pm

## WELCOME RECEPTION

All registered attendees & paid guests who reserved tickets are welcome to an evening cruise of the Chicago river. Appetizers, an open bar and tour guide to highlight the sights will be on hand. The tickets in your registration folder will provide instructions on how to get to the dock please refer to that information or contact ICS staff for any questions.



Friday

Great Room 2

April 27, 2018

8am – 12pm

## AANOS ANNUAL SCIENTIFIC MEETING

### NEUROLOGICAL AND ORTHOPAEDIC SURGERY PART 1

The United States Section of ICS (ICSUS) is proud to continue its long standing relationship with the American Academy of Neurological and Orthopaedic Surgeons (the Academy). As such, the Academy has designated the ICSUS Annual Surgical Update as its Annual Scientific Meeting. Working closely with the members of the Academy to determine professional practice gaps and educational need, ICSUS planners representing these two major surgical specialties have developed two days of programming that will provide approximately 8 hours of specialty specific category 1 credit. Many of the presenters are from local Chicago Universities and Medical Schools. Participants in these sessions will receive valuable updates on the following topics from highly regarded national and international speakers.

**Moderators: W. Craig Clark, MD; Mark Perlmutter, MD; and Sudhir Rao, MD**

#### Contemporary Legal Update to the Definition of Brain Death

**W. Craig Clark, MD, PhD, FICS**, Chairman AANOS, Carrollton, MS

#### Management of Foramen Magnum Tumors

**Shankar Gopinath, MD, FICS**, Associate Professor, Department of Neurosurgery, Baylor College of Medicine, Houston, TX

#### Management of Low-Grade Gliomas and Insular Tumors

**Jose Valerio, MD, MBA**, Chair of Neurosurgery, Palmetto General Hospital; CEO Biscayne Plaza Surgical Center, Weston, FL

#### Management of Atypical Trigeminal Neuralgia

**Octavio Caranza Renteria, MD, PhD**, University Professor, Vasco de Quiroga School of Medicina, Michoacán, Morelia, Mexico

#### Advances in the Surgical Management of Epilepsy

**S. Kathleen Bandt, MD**, Assistant Professor of Neurological Surgery, Northwestern University, Chicago, IL

#### Surgical Management of Infiltrative Gliomas: Resectability, Extent of Resection and Outcomes

**Adam M. Sonabend, MD**, Assistant Professor of Neurological Surgery, Northwestern University, Chicago, IL

#### Collaborating Care Between Orthopaedic and Plastic Surgery in the Care of Mangled Extremity Injuries

**Sonya Agnew, MD**, Assistant Professor Plastic and Reconstructive Surgery, Loyola Medicine, Chicago, IL

#### Building Bionics

**Todd Kuiken, MD, PhD**, Associate Dean for Hospital Academic Affairs, RIC Professor of Physical Medicine and Rehabilitation, McCormick School of Engineering and Surgery, Northwestern University, Feinberg School of Medicine, Chicago, IL

Friday

Great Room 1

April 27, 2018

8am – 9:45am

## COLORECTAL SURGERY SYMPOSIUM

Participants from all specialties will benefit from the following multidisciplinary presentations on the latest advances in colon and rectal surgery. Disseminated during this highly informative symposium will be information about: the clinical significance and value of preserving left colic artery (LCA) when treating the inferior mesenteric artery (IMA) in laparoscopic anterior resection for rectal cancer; clarification of the impact of postoperative CRP levels on prognosis in patients with colorectal cancer; the differences between TCA and classic Hirschsprung's disease (presentation and management) and more.

**Moderators: Bryan Butler, MD and Rifat Latifi, MD**

#### Total Colonic Aganglionosis; Challenges in Management: Early and Late

**Domingo T. Alvear, MD, FICS**, Chairman and Founder World Surgical Foundation, Mechanicsburg, PA

#### The Impact of Postoperative Inflammation on Recurrence in Patients with Colorectal Cancer

**Daiki Matsubara, MD**, Division of Digestive Surgery, Department of Surgery Kyoto Prefectural University of Medicine, Kyoto, Japan

#### Outcomes and Techniques of Transvaginal Anterior Levatorplasty for Intractable Rectovaginal Fistula

**Kotaro Maeda, MD, PhD, FICS**, Executive Director and Professor International Medical Center Fujita Health University Hospital, Toyoake, Japan

#### The Original Minimally Invasive Colorectal Operation

**Bryan Butler, MD, FICS**, Colorectal Surgeon, Buffalo, NY

#### Update in the Management of Diverticulitis

**Shane Svoboda, MD**, Colorectal Surgery Fellow, Buffalo, NY

#### Prevention of Bowel Anastomotic Leak: Reinforcement using Biologic Mesh

**Larry S. Sasaki, MD**, Colon and Rectal Surgeon, North Louisiana Surgery Center, Bossier City, LA

# 42<sup>ND</sup> ANNUAL SCIENTIFIC MEETING

**Friday**  
**Great Room 1**

**April 27, 2018**  
**10am – Noon**

## VASCULAR SURGERY SYMPOSIUM

“Cirugia taurina” is the surgical discipline that treats lesions caused by bull horns. These lesions have distinct features and are observed both in matadores gored during bullfights in the ring as well as in runners injured during events that take place through streets of towns and cities in Europe and Latin America. Less frequently, they are also observed in other local festivities involving bulls.

The purpose of the featured presentation in this session is to provide a brief introduction about the “Fiesta de los Toros” (The Festivities of the Bulls), their different forms both inside and outside the rings. Dr. Leopoldo Fernandez Alonso from Spain will describe the minimal requirements needed to staff immediate response units in order to effectively treat these traumatic injuries that are often life-threatening. He will present his experience at the Pamplona bullfight ring and the Navarra Hospital in the management of patients with bull horn inflicted injuries during the famous festivities of “San Fermin” and the “running of the bulls” made famous in the US in part through the novels of Chicago native, Ernest Hemingway. Dr. Fernandez Alonso will review the features of these lesions, their frequent anatomic locations and the details of surgical management. Other speakers in this session will provide information on the subjects indicated below.

**Moderators: Heron Rodriguez, MD and Dixon Santana, MD**

### Modern Management of Ilio Caval Thrombosis

**Manuel Garcia-Toca, MD**, Clinical Associate Professor, Surgery - Vascular Surgery, Stanford University, Stanford, CA

### Open Aortic Surgery in The Endovascular Era: The Beginning of the End or The End of the Beginning?

**Andrew Hoel, MD**, Assistant Professor of Surgery, Northwestern University Feinberg School of Medicine, Chicago, IL

### Are Femoro-Popliteal Bypasses Obsolete in the Era of Endovascular Techniques?

**Bernadette Aulivola, MD**, Professor of Surgery, Loyola University, Stritch School of Medicine; Director, Division of Vascular Surgery and Endovascular Therapy, Chicago, IL

### The Vascular Surgeon in Non-Vascular Operations: Intraoperative Vascular Consults

**Tadaki Tomita, MD**, Associate Professor of Surgery (Vascular Surgery), Northwestern Medicine, Chicago, IL

### Interhospital Transfers and Regionalization of Care for Ruptured AAA

**Ross Milner, MD**, Professor of Surgery; Director, Center for Aortic Diseases, University of Chicago, Chicago, IL

### Featured Presentation

#### Cirugia Taurina: Surgery in the Bullfight Ring

**Leopoldo Fernandez Alonso, MD**, Complejo Hospitalario de Navarra, Pamplona, Spain

**Friday**  
**Work Room 1&2**

**April 27, 2018**  
**Noon – 1:30pm**

## HONORS LUNCHEON & ICS NEW FELLOW RECOGNITION

### Special Presentation:

#### Surgery: Past, Present and Future

**Prof. Adel Ramzy, MD, FICS**, ICS World Past President, Professor of Surgery, Cairo University, Cairo, Egypt

**Friday**  
**Great Room 2**

**April 27, 2018**  
**1:30pm – 3:30pm**

## A SURGEON'S LEADERSHIP SYMPOSIUM

This practice management symposium will include presentations from experts that will: describe common barriers faced by women physicians in obtaining leadership roles; identify strategies that women in medicine can use to advance as leaders; demonstrate how to apply techniques for positioning oneself as a physician leader; demonstrate how to pace yourself internally to reduce escalation of the physiologic response to stress and anxiety and mitigate the tendency to burn out; will explore the Stress Continuum which may occur as a result of helping others; Stress management self-care techniques will be presented, experienced and discussed; provide information about service line management that aims to reduce costs and improve outcomes.

**Moderator: Clara Raquel Epstein, MD**

### A Surgeon's Leadership Symposium: The Drama of Trauma

**Clara Raquel Epstein, MD, FICS**, Neurosurgeon and CEO, The Epstein Neurosurgery Center, LLC, Boulder, CO

### Strategic Crisis Response Care

**Michael Henderson, B.S.**, International Critical Incident Foundation, American Association of Christian Counselors, Rocklin, CA

### Managing Your Stress and Moving Beyond Burnout

**Stephen Robinson, MA** and **Elizabeth Robinson, MA**, Founders, EVENPULSE: The Science of Human Resilience, Boulder, CO



## SCIENTIFIC PROGRAM

### Hidden Figures: Making Female Physician Leaders Visible

**Vineet Arora, MD, MAPP**, Associate Professor of Medicine, Assistant Dean Scholarship & Discovery, Pritzker School of Medicine, Co-Director MERITS Medical Education Fellowship, GME Director of Clinical Learning Environment Innovation, Chicago, IL

### Trends in Surgical Practice: Challenges and Opportunities

**Sibu Saha, MD, MBA, FICS**, Professor of Surgery and Bioengineering, Chief & Program Director, CT Surgery, University of Kentucky, Lexington, KY

**Friday**  
**Great Room 1**

**April 27, 2018**  
**1:30pm – 4:00pm**

### THORACIC SURGERY FORUM / UPDATE ON LUNG CANCER

Many new developments have occurred for the treatment of lung cancer in this quickly evolving field. Lung cancer is the most common cancer and its most recent diagnostic tools and treatment options will be presented in this symposium. Also included will be significant international participation covering several topics including Esophageal Squamous Cell Carcinoma. A variety of other topics related to Thoracic Surgery as outlined below will also be presented. Participants from all specialties will have a better understanding of the topics presented upon completion of this session. Surgeons who do not practice thoracic surgery will be better prepared to make appropriate recommendations to patients.

**Moderators: Jacques Fontaine, MD and Wickii Vigneswaran, MD**

### Feculent Empyema After Laparoscopic Appendectomy: A Rare Case Report

**Raed Abdulkareem, MD, FICS (Jr)**, General Surgery Resident, University of Illinois, Chicago, IL

### Pulmonary Ossification: An Unusual Solitary Lung Tumor

**James Hendele, MD**, General Surgery Resident, University of Illinois, Chicago, IL

### En-bloc Mediastinal Lymph Node Dissection Using a Laparoscopic Transhiatal Approach for Esophageal Cancer

**Atsushi Shiozaki, MD, PhD**, Assistant Professor, Division of Digestive Surgery, Department of Surgery, Kyoto Prefectural University of Medicine, Kyoto, Japan

### Caring for the Adult with Congenital Heart Disease

**Sarah Hartlage, MD, MS**, Assistant Professor, Department of Anesthesiology and Perioperative Medicine, University of Louisville, Louisville, KY

### Comparison of Feeding Jejunostomy Via Gastric Tube versus Jejunum After Esophageal Cancer Surgery

**Tomoki Konishi, MD**, Graduate Student, Division of Digestive Surgery, Department of Surgery, Kyoto Prefectural University of Medicine, Kyoto, Japan

### High Performing Clinical Microsystems: A Necessity for Success

**Wickii Vigneswaran, MD, FICS**, Professor & Division Director, Thoracic Surgery, Loyola Medicine, Chicago, IL

### Lung Cancer Screening - What You Need to Know

**Jacques Fontaine, MD, FICS**, Associate Professor of Surgery University of South Florida, Tampa, FL

### Treatment of Early Stage Lung Cancer - Is Surgery Still the Gold Standard?

**Jacques Fontaine, MD, FICS**, Associate Professor of Surgery University of South Florida, Tampa, FL

**Friday**  
**Great Room 1**

**April 27, 2018**  
**4:30pm – 6:00pm**

### RESEARCH SCHOLARSHIP COMPETITION

Surgical Residents who have submitted research manuscripts will participate in this annual contest and present their research in an oral format. Manuscripts as well as oral presentations of all the competitors will be judged by a panel to determine the winners of various cash prizes. Attendees will be presented with fascinating information by some of the brightest minds in medicine – support the future of surgery by attending this session.

**Moderators: Steven Brooks, MD and Thavam Thambi-Pillai, MD**

### Empyema from Misplacement of Percutaneous Nephrostomy Tube: A Diagnostic Challenge

**Raed Abdulkareem, MD, FICS (Jr)**, General Surgery Resident, University of Illinois, Chicago, IL

### Reoperation After Lobectomy: A Retrospective Review

**Tessa Cartwright, MD, MPH, FICS (Jr)**, Cardiothoracic Surgery Fellow, University of Kentucky, Lexington, KY

### Novel Concept of Inducing Chronic Allograft Nephropathy in an Animal Model

**Manu Kaushik, MD**, Resident, St. John Providence Hospital, Michigan State University, Southfield, MI

### Baseline Assessment of Pediatric Surgical Care Delivery in Sub-Saharan Africa Using the World Health Organization (WHO) Situational Analysis Tool (SAT)

**Clementine Laetitia Soraya Koa Affana, MD**, All Saints University School of Medicine, Roseau, Commonwealth of Dominica

### Complications after Femoropopliteal Bypass: Vein vs. Prosthetic Graft Utilizing Data from the NSQIP Database

**Peter Rodgers-Fischl, MD, FICS (Jr)**, Resident Physician, Cardiothoracic Surgery, University of Kentucky, Lexington, KY

### Retrospective, Single Site Study to Evaluate the Analgesic Effectiveness of Exparel (Liposomal Bupivacaine) Mixed with Bupivacaine hcl Versus ON-Q Pain Pump for Renal Transplant Recipient Incisions

**Elizabeth Tacl, MD**, Resident, Sanford University of South Dakota Medical Center, Sioux Falls, SD

# 42<sup>ND</sup> ANNUAL SCIENTIFIC MEETING

**Friday**  
**Great Room 2**

**April 27, 2018**  
**4:00pm – 6:00pm**

## GENERAL PLENARY SESSION - OPEN FORUM

Representing 18 surgically related specialties, ICSUS CME programs offer a rich and diverse mix of educational content. The multidisciplinary educational sessions presented in this session seek to provide information that improves the learner's competence, performance or patient outcomes through interaction with peers. Due to the global scope of ICSUS, we encourage participants from all specialties to interact and learn from one another, thereby building a broad base of knowledge that will ultimately improve patient care.

**Moderators: Enrico Nicolo, MD and Biagio Ravo, MD**

### Simulation in Surgical Education: Where Are We In 2018?

**Mayur Narayan, MD, MPH, MBA, FICS**, Associate Professor of Surgery, Weill Cornell Medicine/ New York-Presbyterian Hospital, New York, NY

### New Concepts on the Functional Anatomy of the Abdominal Wall

**Enrico Nicolo, MD, FICS**, Emeritus, Department of Surgery, Jefferson Regional Medical Center, Jefferson Hills, PA

### Double Peritoneal Cavity Cause of Post Prandial Abdominal Pain, Reflux Esophagitis, Small Bowel Obstruction and Mesenteric Ischemia

**Biagio Ravo, MD, FICS**, Professor, Rome American Hospital, Rome, Italy

### New Advances in Breast Cancer Therapies, the Surgical Approach

**Daphnee Beaulieu, FICS (Jr)**, Medical Student, University of St. George's, Brooklyn, NY

### Rare Occurrence of FNH in a Child

**Edward Daniele, MD**, Texas Tech University Health Sciences Center, Department of Surgery, Lubbock, TX

### Novel Approach to Diversion of Enteroatmospheric Fistula

**Karla Leal, MD**, Surgery Resident, Texas Tech University Health Science Center, Lubbock, TX

### Suprapubic Catheter Placement through Ileal Mesentery Causes Mechanical Small Bowel Obstruction Six Years Later in a Female Patient with Turners Syndrome



**Jayne McCauley, MD**, General Surgery Resident - Texas Tech University Health Sciences Center School of Medicine, Lubbock, TX

### Compliance and Variance in Teaching Assistant Experience during Surgical Residency

**Mitesh Patel, MD**, General Surgery Resident, Providence Hospital and Medical Centers; Michigan State University, Southfield, MI

**Saturday**  
**Great Room 2**

**April 28, 2018**  
**8:00am – Noon**

## AANOS ANNUAL SCIENTIFIC MEETING - NEUROLOGICAL AND ORTHOPAEDIC SURGERY PART 2

See Page 9 for description. Presentations in this session will focus on the following topics...

**Moderators: Maxime Coles, MD; Charles Xeller, MD; and Lucia Zamorano, MD**

### A Rare Case of Pseudomonas Meningitis Following Intrathecal Baclofen Pump Placement in a 28-year old Paraplegic Patient

**Clementine Laetitia Soraya Koa Affana, MD**, All Saints University School of Medicine, Roseau, Commonwealth of Dominica

### Management of Abdominal Cerebrospinal Pseudocyst in a Hostile Abdomen

**Anand Tarpara, MD**, General Surgery Resident, Texas Tech University Health Sciences Center School of Medicine, Lubbock, TX

### Management of Cervical and Occipital-Cervical Fractures: Developing an Organized and Algorithmic Approach

**W Craig Clark, MD, PhD, FICS**, Chairman, AANOS, Carrollton, MS

### Spondylectomy for En Bloc Resection of Tumors of the Mobile Spine - Indications and Technique

**Jean-Paul Wolinsky, MD**, Professor of Neurosurgery and Orthopedic Surgery, Northwestern University, Chicago, IL

### Principles of Orthopedic War Surgery in the Humanitarian Setting: A Syrian Field Hospital Experience.

**Samer Attar, MD**, Assistant Professor of Orthopaedic Surgery, Northwestern University, Chicago, IL

### Clinical Trial of Regenerative Medicine Using Autologous Adipose Derived Stem Cell (ADSC) Cultured by Serum Free Medium

**Hisakazu Yamagishi, MD, PhD, FICS**, Professor, Kyoto Prefectural University of Medicine, Kyoto, Japan

### Optimization of Lumbar Fusions and Sagittal Alignment with Expandable Cages

**Lucia Zamorano, MD, FICS**, Clinical Professor of Neurosurgery, Oakland University William Beaumont School of Medicine, Birmingham, MI

# SCIENTIFIC PROGRAM

## Pitfalls in the Diagnosis of a Limping Child

**Maxime Coles, MD, FICS**, Orthopaedic Surgeon, Coffeyville, KS

## Update on GEMINI for the Cure of SCI: Fusogens and Possible Spinal Cord Lavage

**Raymond A. Dieter, Jr., MD, FICS**, ICS World Past President, Surgeon, Research Service, Hines VA Hospital, Glenn Ellyn, IL

## Use of PRP in Sports Medicine

**Naga Suresh Cheppalli, MD, FICS**, Orthopedic Surgeon, Florence, SC

## Addiction Medicine – An Update on Evidence-Based Treatment for Opioid Use Disorder

**J. Thomas Murphy, MD, FICS**, Professor of Anesthesiology, University of Kentucky, College of Medicine, Lexington, KY

**Saturday  
Great Room 1**

**April 28, 2018  
8:00am – 10:00am**

### GENERAL PLENARY SESSION GENERAL, HPB & ONCOLOGIC SURGERY

Representing 18 surgically related specialties, ICSUS CME programs offer a rich and diverse mix of educational content. The multidisciplinary educational sessions presented in this session seek to provide information that improves the learner's competence, performance or patient outcomes through interaction with peers. Due to the global scope of ICSUS, we encourage participants from all specialties to interact and learn from one another, thereby building a broad base of knowledge that will ultimately improve patient care. Presentations in this session will focus on the following topics that are primarily related to the treatment of a variety of oncologic issues.

**Moderators: Andrew Klein, MD and Masakazu Yamamoto, MD**

## Intraoperative Indocyanine Green Fluorescence Imaging for Evaluation of Blood Supply in Local Flaps for Reconstruction in Oral Cancer

**Masaaki Karino, DDS, PhD, FICS**, Assistant Professor, Department of Oral and Maxillofacial Surgery, Shimane University, Faculty of Medicine, Izumo, Japan

## TRPV2 is a Potential Novel Target of Esophageal Cancer Stem Cells

**Keita Katsurahara, MD**, Division of Digestive Surgery, Kyoto Prefectural University of Medicine, Kyoto, Japan

## Novel Nodal Metastatic Index as a Combined Indicator of Nodal Counts and Stations in Gastric Cancer

**Keiji Nishibeppu, MD**, Division of Digestive Surgery, Department of Surgery, Kyoto Prefectural University of Medicine, Kyoto, Japan

## Bilateral Mastectomies in Breast Cancer Patients: Does Single vs Double Surgeon Affect Outcomes?

**Arsalan Salamat, MD, FICS (Jr)**, Breast Surgery Fellow, University of Pittsburgh Medical Center, Pittsburgh, PA

## A New Conception of Oral Potentially Malignant Disorders (PMDs) and Surgical Management of PMDs

**Joji Sekine, DDS, PhD, FICS**, Professor and Chairman, Department of Oral and Maxillofacial Surgery, Shimane University Faculty of Medicine, Izumo, Japan

## Liver Segmentation Based on the Surgical Anatomy

**Ken Takasaki, MD, PhD, FICS**, Professor Emeritus of Surgery, Institute of Gastroenterology, Tokyo Women's Medical University, Tokyo, Japan

## Management of Stage III Pancreatic Adenocarcinoma with Irreversible Electroporation (IRE) in a Community Setting: Single Center Experience

**Thav Thambi-Pillai, MD, FICS**, Associate Professor of Surgery, Sanford School of Medicine, University of South Dakota, Sioux Falls, SD

## Surgical Outcomes After Anatomical Hepatectomy for Patients with Hepatocellular Carcinoma

**Masakazu Yamamoto, MD, PhD, FICS**, Professor of Surgery, Department of Gastroenterology, Tokyo Women's Medical University, Tokyo, Japan

## Liver Transplantation for Polycystic Liver Disease

**Yoshihito Kotera, MD, PhD, FICS**, Assistant Professor of Surgery, Department of Surgery, Institute of Gastroenterology, Tokyo Women's Medical University, Tokyo, Japan



**Saturday  
Great Room 1**

**April 28, 2018  
10:00am – Noon**

## PLASTIC & RECONSTRUCTIVE SURGERY FORUM

Plastic & Reconstructive surgery is performed not only for aesthetic reasons, but also because of congenital defects, developmental abnormalities, trauma, infection, tumors or disease. While plastic and reconstructive surgery is performed primarily to improve function and ability, it may also be performed to achieve a more typical appearance of the affected part of the body. This session will include speakers from around the world who will review treatment options for a variety of situations where plastic and reconstructive surgery is used. Presentations in this session will allow participants who are not practicing this specialty to become more aware of the latest trends and be better prepared to make recommendations to patients who may require these life changing procedures.

**Moderators: Jacob Varon, MD and Thomas Willson, MD**

### Prevention of Lymphedema in Breast Cancer Patients Undergoing Mastectomy and Axillary Lymph Node Dissection

**Michelle Djohan**, Medical Student, University of Toledo College of Medicine, Toledo, Ohio

### Eight-Year Follow-Up on the U.S. First Face Transplant and the Longest Living Composite Tissue Facial Allograft Containing Vascularized Bone

**Risal Djohan, MD**, Vice Chairman, Dermatology Plastic Surgery Institute - Department Plastic Surgery, Cleveland, Ohio

### Applicability of Buccal Fat Pad Grafting for Oral Reconstruction

**Aya Yoshino, DDS, PhD, FICS**, Assistant Professor, Shimane University, Izumo, Japan

### Overview of Wound Repair

**Robert Walton, MD**, Professor of Surgery, Division of Plastic Surgery, Northwestern University Feinberg School of Medicine, Chicago, IL

### An Anatomic Analysis of Monozygotic Twins: Direct or Mirrored Concordance of Skin Features, Facial Shape, and Body Asymmetries

**David Teplica, MD, MFA**, Clinical Associate, Section of Plastic & Reconstructive Surgery, The University of Chicago, Chicago, IL

### Surgical Correction of Unilateral Nasal Bony Deformity Using Nasal Septum Cartilage Following Treatment For Naso-Orbital-Ethmoid Fractures

**Taichi Ide, DDS**, Senior Resident, Izumo, Japan

**Saturday  
Great Room 1**

**April 28, 2018  
12:30pm – 1:15pm**

## SPECIAL LUNCHEON PRESENTATION THE DR. ANDRE CROTTI LECTURE

The recipient of the 2018 Dr. Andre Crotti Award for Distinguished Service to the Profession of Surgery will make a scientific presentation and receive his award during this special luncheon program.

### Microsurgical Reconstruction of the Nose

**Robert Walton, MD**, Professor of Surgery, Division of Plastic Surgery, Northwestern University Feinberg School of Medicine, Chicago, IL

**Saturday  
Great Room 1**

**April 28, 2018  
1:30pm – 4:00pm**

## TRAUMA AND ACUTE CARE SURGERY FORUM

The specialty of Trauma and Acute Care Surgery is evolving constantly with new treatment options for a variety of injuries and conditions. This session will present unique cases and discuss the increasing need for trauma and emergency surgical coverage in different settings and situations. The Dr. Arno Roscher Endowed Lecture will feature the Chief Medical Examiner for LA County for over 20 years, who will present information about the Coroner's role in evaluating possible therapeutic misadventures during this informative oration.

**Moderators: Mayur Narayan, MD and Sharique Nazir, MD**

## THE DR. ARNO ROSCHER ENDOWED LECTURE THERAPEUTIC MISADVENTURES

**Lakshmanan Sathyavagiswaran, MD**, Professor of Medicine and Pathology at USC, Keck School of Medicine, Los Angeles, CA

### Trauma as Disease Process Affecting the Nation

**Sharique Nazir, MD, FICS**, Attending Surgeon, NYU Langone Hospital, New York Honorary Police Surgeon NYPD, Staten Island, NY

### Role of VAC Therapy in Wound Management in India

**Prof. Dr. Rajesh C. Shah, FICS**, Professor of Surgery and Medical Superintendent, Sheth L.G. Municipal General Hospital and Ahmedabad Municipal Corporation Medical Education Trust Medical College, Ahmedabad, India

### Surgical Management of Bile Duct Injury after Cholecystectomy

**Frank P. Schulze, MD**, Chief of Surgery, St. Marien Hospital, Mülheim, Germany

### A Novel Approach to Closure of an Open Abdomen and Lower Extremity Traumatic Wound

**Babak Abbassi, MD, MBA, MS**, Surgery Resident, Texas Tech University Health Sciences Center School of Medicine, Lubbock, TX

## SCIENTIFIC PROGRAM

### Hyperoxia After Cardiac Arrest and In-Hospital Mortality: First Do No Harm

**Rana Latif, MD, FFA**, Associate Professor, Dept. of Anesthesiology & Perioperative Medicine, Anesthesiology Critical Care Education Coordinator, Paris Simulation Center Office of Medical Education, University of Louisville, Louisville, KY

### Simultaneous Occurrence of Gastric and Duodenal Peptic Perforation: A Rare Encountered Entity

**Mohit Bhatia, MBBS, MS**, Senior Resident, Department of General Surgery, Safdarjang Hospital, New Delhi, India

### Opioid Management in the Trauma Patient

**Daphnee Beaulieu, FICS (Jr)**, Medical Student, St. George's University, Brooklyn, NY

## Saturday Great Room 1

April 28, 2018  
4:00pm – 6:00pm

### ANNUAL ETHICS WORKSHOP

In the latter years of the 20th century the term bioethics was coined to denote the decision making and choices a physician needs to consider to practice in modern health care systems. Physicians in the 21st century are the first to practice under the never changing medical ethical codes established for millennia and a code imposed by the systems in which we live whether they be governmental, religious, or existential. In this 2-hour session we will explore how the 21st century physician deals with dichotomy that too often exists between his own “medical” ethic and the bioethical system in which he lives.

**Moderators: Frank Bongiorno, MD and Mamta Swaroop, MD**

### Surgical Innovation and the Future of Surgical Practice

**Peter Angelos, MD**, Linda Kohler Anderson Professor of Surgery and Surgical Ethics Chief, Endocrine Surgery Associate Director, MacLean Center for Clinical Medical Ethics, The University of Chicago, Chicago, IL

### Surgical Triage in the Hostile, Low-Resource Environment: Who Gets What?

**Samer Attar, MD**, Assistant Professor, Orthopedic Surgery, Northwestern Medicine, Chicago, IL

### Violence Seen Through a Public Health Lens

**Selwyn Rogers, MD, MPH**, Professor of Surgery, University of Chicago Medicine, Chicago, IL

## SOCIAL EVENTS

Thursday

April 26

See tickets for location

6:30 - 9:00pm

### WELCOME RECEPTION

We have planned a very special event to mark the opening of the 80th Annual Surgical Update! All registered attendees & paid guests who reserved tickets are welcome to an evening cruise of the Chicago river. Appetizers, an open bar and tour guide to highlight the sights will be on hand. The tickets in your registration folder will provide instructions on how to get to the dock please refer to that information or contact ICS staff for any questions.



Friday

April 27

Workroom 1

Noon - 1:30pm

### HONORS LUNCHEON

Please join us as we induct our Section's new Fellows into the College and honor those who have contributed to the success of our meeting and our Section.



Friday

April 27

Gather at the Art Institute

2:00 - 4:00pm

### CHICAGO ART INSTITUTE TOUR

Meet at the museum for a special guided tour of the Art Institute. The tickets in your registration folder will have complete information on getting there. After the tour you will be free to view the rest of the collection at your leisure. **\$37/person Tickets must be ordered in advance.**



Saturday

April 28

Altitude, 33rd Floor

7:00 - 11:00pm

### CLOSING DINNER

Join us as we come together for one last event before we bid farewell until next year. Francis J. Podbielski, MD and W. Craig Clark, MD invite you to attend the combined closing dinner of ICS-US and the AANOS. The **black-tie optional event** will feature complimentary wine at your table, award presentations and live entertainment. **Price: \$ 150 each. Tickets must be ordered in advance.**

# FAANOS

## Fellow of the American Academy of Neurological and Orthopaedic Surgeons

A post-nominal title is used to indicate that a surgeon's education and training, professional qualifications, surgical competence, and ethical conduct have passed a rigorous evaluation, and have been found to be consistent with the high standards established and demanded by a professional society such as the American Academy of Neurological and Orthopaedic Surgeons (AANOS).

As such, the post-nominal title of **FAANOS** is now being offered to qualified members of the AANOS based on compliance with the following minimum requirements as adopted by its Board of Directors.

- Continuous active dues paid membership in the AANOS for a period of 5 years or more. Your dues must be current and paid up through this fiscal year (2018).
- Active participation in the annual scientific meetings of the AANOS (attendance at least once in the past three years, 2014-2016).
- Certification by a board recognized by the American Federation of Medical Accreditation or its equivalent (certification must be maintained as required by the certifying body and in the case of AFMA boards by completing appropriate reapplication every five years or FAANOS designation will be forfeited/suspended).
- Payment of a one-time non-refundable application fee of \$100.00 (to cover the cost of processing and production of an ornate certificate of Fellowship).

Please submit your completed application for review by the Credentials Sub-Committee to receive your certificate and begin using the FAANOS designation. Visit [www.AANOS.org](http://www.AANOS.org) and click on the Membership tab in the navigation bar at the top and then select FAANOS to obtain a copy of the application form.



Certificate dimensions are 11 inches by 14 inches see sample above (actual may differ slightly).



# GENERAL INFORMATION

## Cancellation Policy

The cancellation deadline was March 26, 2018. Refunds will be issued, minus a \$75 processing fee, upon receipt of written notification via fax or mail. Verbal or written cancellations after March 26 will not be honored. Please allow four to six weeks after the meeting for your refund.

## Fees

Meeting-related fees must be paid in US funds. Checks as well as Visa, Master Card, and American Express are acceptable forms of payment.

## Language

The official language of this conference is English, and all sessions and events shall be conducted in English.

## Parking

Pull right up. The W provides 24-hour valet parking for a fee; self-parking is not available.

Hourly rates are available as follows:

0 – 2 hours - 25 USD

2 – 6 hours - 37 USD

6 – 24 hours - 66 USD (52.99 USD base rate plus 20% city tax and 6% county tax)

## Attire

Business casual attire is recommended in educational sessions and on-site social activities. Casual attire is appropriate for most off-site social events.

## Special Needs and Questions

If you have any special needs that must be addressed to ensure your comfort and/or if you require information not listed in this brochure, please see the ICS-US Staff at the Registration Desk during the hours listed above. Every effort will be made to facilitate your request.

## Social Event Tickets

Tickets for social events MAY be available onsite on a VERY limited basis. However, staff is not responsible for events that are sold-out/unavailable or cancelled. Check with the Meeting Registration Desk as soon as possible.

## Speaker Prep Area

A laptop computer has been setup near the registration area. Speakers who did not submit their presentations in advance of the meeting should load their PowerPoint files the day before their presentation. Speakers may also use this laptop to preview/review their files.

## Meeting Registration

Everyone attending or participating in educational sessions, including faculty, is expected to register for the meeting.

## Spouse/Guest Supplement

Anyone attending the meeting who is not a registered attendee should be registered as a spouse/guest. The \$150 fee includes a reservation for the Opening Reception River Cruise and covers the costs such as lunches, breakfasts and coffee breaks etc. This includes: Spouses, Domestic Partners and Relatives. This category is not appropriate for physicians who will attend CME Sessions.

To register for the meeting, please visit the Meeting Registration Desk.

## Continuing Medical Education (CME) Information

CME Program Evaluation Forms are included in each registrant's packet. To receive CME Credit, you must complete a Program Evaluation Form for each educational session you attend. Leave the packets intact, including any blank sessions.

Program Evaluation Forms must be completed and returned to the Meeting Registration Desk prior to the conclusion of the conference. You may also mail your forms to:

ICS-US Headquarters  
Department of CME  
1516 North Lake Shore Drive  
Chicago, IL 60610-1694

**The deadline for submission of all CME Program Evaluation forms is Friday, June 1, 2018.**

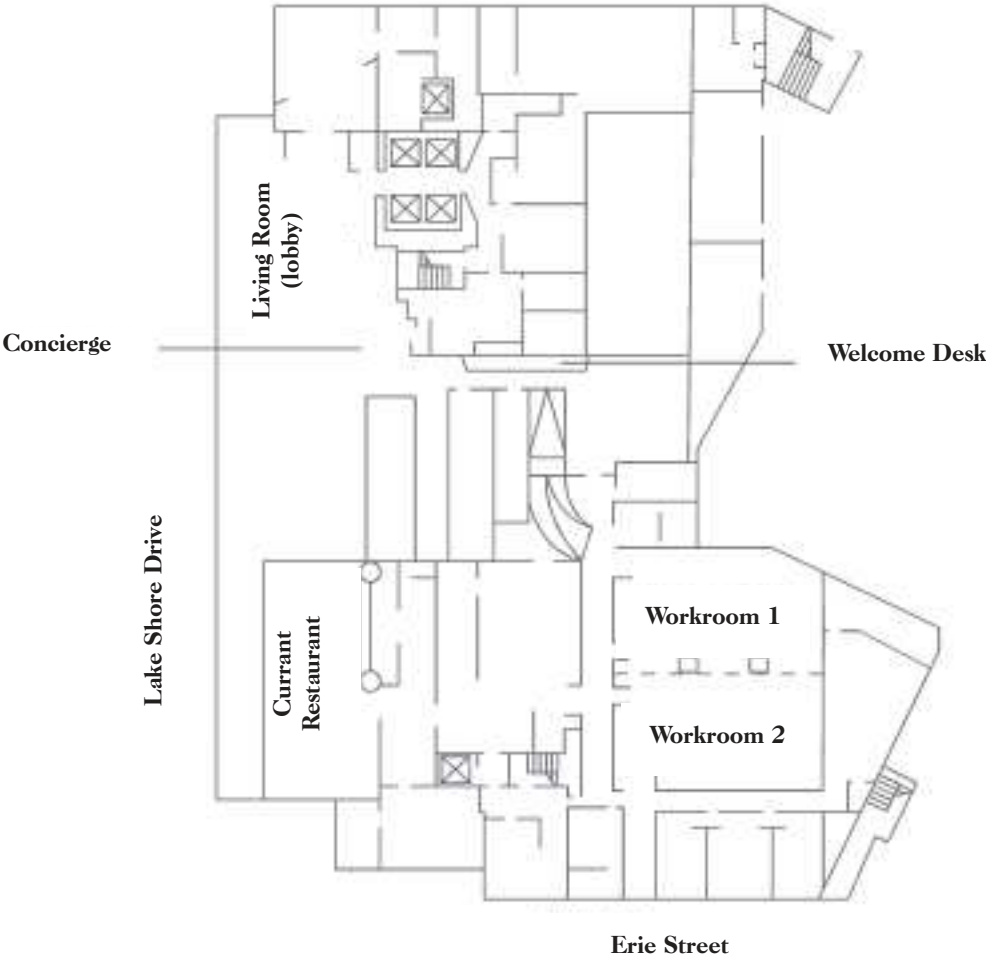
## Transcripts

You must return your CME evaluation booklet to receive CME credit for this meeting. Transcripts will be made available to attendees 30 days after the conclusion of this meeting following completion of a post-meeting survey which will be emailed to you individually.

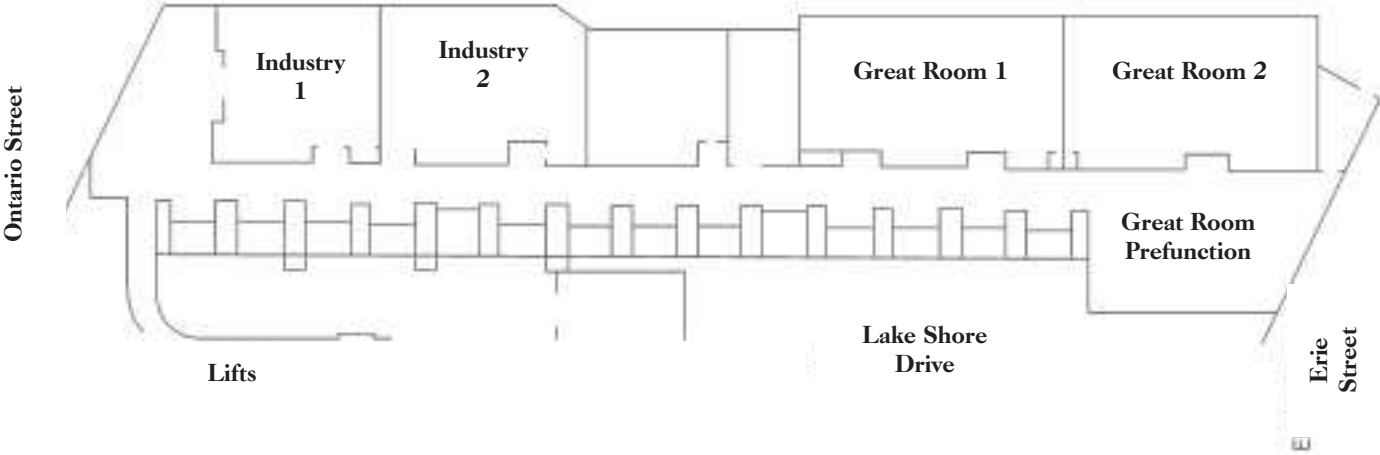
# NOTES

# W Lakeshore Chicago Floor Plans

## First Floor



## 6th Floor



## SCHEDULE AT A GLANCE

THURSDAY  
APRIL 26, 2018

**GREAT ROOM PRE-FUNCTION**

Registration  
7:30 AM-5:00 PM

**INDUSTRY 1 & 2**

Officer Breakfast  
7:30 AM-9:00 AM

All-Day Coffee Break  
9:00 AM-3:00 PM

**INDUSTRY 1 & 2**

ICS-US Business Meetings  
Endowment, Executive  
Committee  
Standing Committees  
CME  
Regents  
Executive Council  
House of Delegates  
8:00 AM-2:30 PM

**INDUSTRY 1 & 2**

Officers Luncheon  
12:00 PM-1:00 PM

**FOCUS 3 (7TH FLOOR)**

Alliance Board Meeting  
Noon-1:00 PM

**GREAT ROOM 1**

ICS-US Opening Ceremony  
Opening Session:  
Global/Rural Surgery  
3:00 PM-6:30:00 PM

**OFFSITE**

**(SEE TICKETS FOR LOCATION)**

Chicago River Cruise and  
Welcome Reception  
6:30 PM-9:00PM

FRIDAY  
APRIL 27, 2018

**GREAT ROOM PRE-FUNCTION**

Registration  
7:30 AM-5:00 PM

**INDUSTRY 1 & 2**

Continental Breakfast  
7:00 AM-9:00 AM

Exhibitors  
7:30 AM-5:00 PM

All-Day Coffee Break  
9:00 AM-5:00 PM

**GREAT ROOM 1**

ICS General Session  
Colorectal Surgery Symposium  
8:00 AM to 9:45 AM

**GREAT ROOM 2**

AANOS: Neurological and  
Orthopaedic Surgery Part 1  
8:00 AM-12:00 PM

**GREAT ROOM 1**

Vascular Surgery Symposium  
10:00 AM to Noon

**WORKROOM 1&2**

Honors Luncheon  
12:00 PM-1:30:00 PM

**GREAT ROOM 1**

Thoracic Surgery Forum:  
Update on Lung Cancer  
1:30 PM to 4:00 PM

**GREAT ROOM 2**

A Surgeon's Leadership Symposium  
1:30 PM to 3:30 PM

**OFFSITE (SEE TICKETS FOR LOCATION)**

Art Institute Museum Tour  
1:30 PM to 3:30 PM

**GREAT ROOM 2**

General Plenary Session  
Open Forum  
4:00 PM to 6:00 PM

**GREAT ROOM 1**

Annual Research Scholarship  
Competition  
4:30 PM to 6:00 PM

**WORK ROOM 1**

AANOS Board of Directors  
Meeting  
4:00 PM-6:00 PM

SATURDAY  
APRIL 28, 2018

**GREAT ROOM PRE-FUNCTION**

Registration  
7:30 AM-5:00 PM

**INDUSTRY 1 & 2**

Continental Breakfast  
7:00 AM-9:00 AM

Exhibitors  
7:30 AM-3:00 PM

All-Day Coffee Break  
9:00 AM-5:00 PM

**GREAT ROOM 1**

ICS General Plenary Session:  
General, HPB & Oncologic Surgery  
8:00 AM-10:00 AM

**GREAT ROOM 2**

AANOS: Neurological and  
Orthopaedic Surgery Part 2  
8:00 AM-12:00 AM

**GREAT ROOM 1**

Plastic & Reconstructive Surgery  
Forum  
10:00 AM - Noon

**GREAT ROOM 1**

Special Luncheon Presentation  
The Dr. Andre Crotti Lecture  
Noon-1:30 PM

**GREAT ROOM 1**

Trauma and Acute Care  
Surgery Forum  
1:00 PM-4:00 PM

**GREAT ROOM 1**

Annual Ethics Workshop  
4:00 PM-6:00 PM

**ALTITUDE (33RD FLOOR)**

Closing Dinner  
7:00 PM - 11:00 PM