



**82<sup>ND</sup> ANNUAL  
SURGICAL UPDATE**

**SCIENTIFIC  
PROGRAM**

**GLOBAL AND RURAL SURGERY:  
TWO SIDES OF THE SAME COIN**

**44<sup>TH</sup> ANNUAL  
SCIENTIFIC MEETING**

**AMERICAN ACADEMY  
OF NEUROLOGICAL  
AND ORTHOPAEDIC  
SURGEONS**

**JUNE 24-26, 2021  
MINNEAPOLIS, MINNESOTA**



## CONTINUING MEDICAL EDUCATION ACCREDITATION INFORMATION

**OVERALL COURSE OBJECTIVES** The Annual Surgical Update 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 Surgical Update 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. 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 19 AMA PRA Category 1 Credits. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

# TABLE OF CONTENTS

<b>CONTINUING MEDICAL EDUCATION ACCREDITATION INFORMATION</b> .....	2
<b>LETTERS OF WELCOME</b>	
ICS World President.....	4
United States Section President .....	5
Chair of the American Academy of Neurological and Orthopaedic Surgeons.....	6
<b>HONORARY FELLOW AND THE DR. ANDRE CROTTI AWARD RECIPIENT</b> .....	7
United States Section President Elect .....	8
Incoming Chair of the American Academy of Neurological and Orthopaedic Surgeons.....	9
<b>SCIENTIFIC PROGRAM</b>	
Opening Session - Global Surgery and Surgical Mission Work.....	10
AANOS Annual Scientific Meeting - Neurological and Orthopaedic Surgery Part 1 .....	11
Clinical Telemedicine Around the World: From Ad Hoc Medicine to Modus Operandi .....	12
General Plenary Session.....	13
Honors Luncheon The Dr. Andre Crotti Lecture .....	14
Managing Trauma and Emergency General Surgery.....	14
COVID-19 Lessons Learned .....	15
AANOS Annual Scientific Meeting - Neurological and Orthopaedic Surgery Part 2 .....	17
Rural Surgery: Training and in Practice .....	18
Physician Wellness and Ethics.....	19
Luncheon Lecture: The Dr. Arno A. Roscher Endowed Lecture.....	20
The Influence of Robotics and Technology in Surgery .....	20
Annual Research Scholarship Competition .....	21
<b>WITH OUR THANKS</b> .....	23
<b>IN MEMORIAM</b> .....	24
<b>SOCIAL ACTIVITIES</b> .....	25
<b>GENERAL MEETING INFORMATION</b> .....	25
<b>83<sup>RD</sup> ANNUAL SURGICAL UPDATE - SAVE THE DATE</b> .....	26
<b>Schedule at a Glance</b> .....	27

## COVID-19 AND THE ANNUAL MEETING

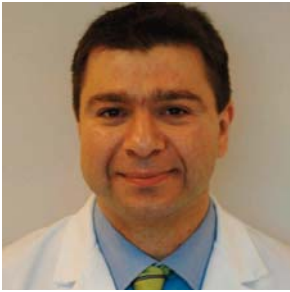
The Covid-19 pandemic is still a concern for many. While progress is being made, and many restrictions have been relaxed, we are proceeding with caution and in compliance with the InterContinental's current Covid-19 Policies.

Please Note the following:

- Masks are required outside of sleeping rooms for those who are not fully vaccinated .
- Social distance seating will be offered in each CME session room.
- During Social Events there will be options for both distanced seating, and more traditional seating arrangements. Please select the option you feel most comfortable with.

For the latest information on Minneapolis' Covid status visit the Minneapolis Convention and Visitor Bureaus website at:  
<https://www.minneapolis.org/covid-19-health-safety/>

# WELCOME FROM THE INTERNATIONAL COLLEGE OF SURGEONS WORLD PRESIDENT



Dear Friends:

As the International College of Surgeons World President, it is my pleasure and privilege to welcome you to the 82nd Annual Surgical Update of the United States Section of the International College of Surgeons with the theme of “Global and Rural Surgery: Two Sides of the Same Coin”. This 82nd Surgical Update is based on the excellent planning and energetic organization of the US Section leadership and the Planning Committee and it will surely, once again, provide us all with an opportunity to learn about the most up-to-date treatments and progress in surgery, discuss the various current and future challenges of our profession, while at the same time enjoy the beauty of Minneapolis.

This meeting is especially exciting for me for a variety of reasons, which I would like to share with you. First and foremost, it places in the forefront the theme of Global Surgery, underscoring the close relationship between Global and Rural Surgery. This is not only a core part of our mission as the International College of Surgeons who has been guided by the philosophy of our founder, Dr. Max Thorek, to be actively involved in humanitarian efforts and medical care, but also what clearly distinguishes us from any other surgical College or Association. Our members, our fellows, our strength, they all differ and they all come from different parts from all around the world; yet, at the same time, it is exactly this diversity that allows us to be a truly Global Surgical Association with a unique relationship with the World Health Organization (WHO), as we have the privilege of being a Non-Governmental Organization in Official Relations with the WHO. This is the result of the vision of those before us and the active efforts of our members all around the world in leading Humanitarian missions and being at the forefront of Global Surgery. The US section has always been particularly active in this regards and so it is only fitting that this would be the theme of the meeting.

Another reason for my excitement for this meeting is the fact that Professor David Farley will be present and honored by the International College of Surgeons. He is a true pioneer in the field of surgical education and his choice is a testament to the academic excellence that the US section and its members exemplify.

Finally, the fact that this meeting at a time when we are trying to recover and adjust to the changes in our lives brought upon by COVID-19. This has been a true challenge for the health care system, for society and for every one of us as a person. Most of us have lost friends and colleagues, and they will not be forgotten. At the same time, we are faced with the challenge of making adjustments (some more permanent than others) to our personal and professional lives. As we are doing this and given the fact that these are relatively uncharted waters, I urge all of us to use opportunities such as this truly excellent surgical meeting to learn about each other, and realize that what keeps us together is stronger than any of our differences.

I look forward to being with all of you and to learning about your updated experiences in surgery.

Sincerely,

*Georgios Tsoulfas, MD*

Georgios Tsoulfas, MD, PhD, FACS, FICS  
World President  
International College of Surgeons



## WELCOME FROM THE INTERNATIONAL COLLEGE OF SURGEONS - UNITED STATES SECTION PRESIDENT



Welcome Fellows, Colleagues and Friends;

It is with great pleasure that I welcome you to the 82nd Annual Surgical Update of the United States Section of the International College of Surgeons. We are congregated here in Minneapolis to participate in this annual conference. Our meeting, which is titled; Global and Rural Surgery: Two Sides of the Same Coin, will include presentations frequently touching on one of the elements of the theme. This educational activity will provide informative data for the general surgeon and surgical specialist alike, providing both multidisciplinary and specialty specific educational content.

As you review the meeting information provided, you will note that we have developed a high quality program. You will hear from experienced educators from around the world as they tell us about their respective projects, research and experiences. Additionally, we are fortunate to have our ICS World President join us from Greece. Prof. Giorgios Tsoulfas will speak on Saturday afternoon and participate in various other aspects of the meeting. We are very grateful that he is able to join us.

On a final note, I encourage everyone to attend the Honors Luncheon on Friday. During this break from educational programming we will welcome our newest members and recognize those who have made significant contributions to our esteemed organization. I hope to see you there.

Welcome to Minnesota, the Star of the North. Enjoy!

A handwritten signature in black ink that reads "Thav Thambi-Pillai". The signature is written in a cursive, flowing style.

Thav Thambi-Pillai, MD, MBA, FICS  
President, United States Section  
International College of Surgeons

# WELCOME FROM THE CHAIR OF THE AMERICAN ACADEMY OF NEUROLOGICAL AND ORTHOPAEDIC SURGEONS



Dear Colleagues:

It is my pleasure to welcome you to the 44th Annual Scientific Meeting of the American Academy of Neurological and Orthopaedic Surgeons. We are gathered here at the InterContinental Hotel in Minneapolis for our annual educational program.

Our conference will provide information on a variety of Neurological, Orthopaedic and Spine related topics and I encourage you to review the information available on the meeting APP to learn all about the various speakers and their presentations. I am delighted that in this year's program will include a number of speakers from the upper midwest including, but not limited to Dr. Clark Chen, Chair of the Department of Neurosurgery at the University of Minnesota and Dr. Robert Van Demark, Orthopedic Surgery Section Head at the University of South Dakota Sanford School of Medicine in Sioux Falls.

I am pleased that the International College of Surgeons, as our educational partner, has worked closely with our Scientific Organizing Committee to develop additional programming that is likely to be of interest to all surgical specialties. 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.

I hope you have a most enjoyable visit to the land of 10,000 lakes during our annual meeting!

Sincerely,

A handwritten signature in black ink, appearing to read "M. Perlmutter".

Mark N. Perlmutter, MD, FICS, FAANOS  
Chairman of the Board  
American Academy of Neurological and Orthopaedic Surgeons

**HONORARY FELLOW**  
**AND**  
**RECIPIENT**  
**OF THE**  
**DR. ANDRE CROTTI AWARD**  
**FOR**  
**DISTINGUISHED SERVICE TO THE PROFESSION OF SURGERY**



**DAVID R. FARLEY, MD**  
**MAYO CLINIC**

David R. Farley, M.D., is a consultant in the Department of Surgery, at Mayo Clinic. Dr. Farley serves as associate director for the Mayo Clinic Multidisciplinary Simulation Center, and he is the director for the Simulation Research Fellowship Program. He joined the staff of Mayo Clinic in 1994 and holds the academic rank of professor of surgery, Mayo Clinic College of Medicine and Science.

Dr. Farley earned his B.S. and M.D. at the University of Wisconsin and completed a residency in General Surgery at Mayo Clinic. He also completed one year of endocrinology research and added six months of surgical and educational training in Mannheim, Germany, as a Mayo Foundation Scholar.

Dr. Farley's clinical interests focus on endocrine and laparoscopic surgical disciplines. His academic efforts lie with surgical education and simulation training in surgery, focusing on how to create better surgeons in less time. He is passionate about offering surgical trainees hundreds of repetitions using low cost simulation and then assessing them to make sure they are ready to operate on real patients.

As director of the General Surgery residency program for 15 years, Dr. Farley helped train over 300 young surgeons. He has been recognized at Mayo Clinic with numerous honors and awards for education (Distinguished Educator Award, Faculty Service Award, and 16 Teacher of the Year Awards) placing him in the Mayo Clinic School of Medicine Hall of Fame for teaching.

Dr. Farley was the co-editor for both Operative Techniques in General Surgery and Contemporary Surgery. He has authored over 300 articles, abstracts and book chapters, co-wrote three books, and has given hundreds of international, national and regional presentations.

Certified by the American Board of Surgery (ABS), Dr. Farley is a fellow of the American College of Surgeons (ACS). He has held leadership positions for professional organizations (ACS, Western Surgical, Midwest Surgical, American Association of Endocrine Surgeons, and the Association of Program Directors in Surgery), and is a past president of both the Minnesota Surgical Society and The Priestley Society. He became a director of the ABS in 2016.

**INTRODUCING THE PRESIDENT-ELECT OF THE UNITED STATES SECTION  
OF THE  
INTERNATIONAL COLLEGE OF SURGEONS  
FOR THE  
TERM COMMENCING JANUARY 1, 2022**



**MARK NICHOLAS PERLMUTTER, MS, MD, FICS**

Mark Nicholas Perlmutter, MS, MD is a board certified and hand surgery fellowship trained Orthopaedic Surgeon in private practice. His group's primary office is located in Rocky Mount, North Carolina where Dr. Perlmutter focuses his orthopedic activities on the treatment of hand and upper extremity related issues. Although he embraces only the most modern surgical techniques, such as minimally invasive hand surgery, he has a strong emphasis on the conservative management of all medical conditions. By combining state of the art medical procedures with the old-fashioned principles of availability, compassion, and honesty in patient care, Dr. Perlmutter has earned a strong reputation for excellence in the community.

As a past participant in numerous medical missions to underserved parts of the world, it was the College's focus on Global Surgery that attracted Dr. Perlmutter to the organization. Most recently he traveled to Honduras to provide care to those in need. He plans to return as soon as possible acknowledging that there is a tremendous deficiency in surgical care in the region. He has also been very active in the G4 Alliance that aims to bring together organizations with similar interests in Global Surgery. In fact, he won a \$40,000 grant from the G4 Alliance on behalf of the International College of Surgeons - United States Section to build the SOTA Registry. The purpose of which is an open-source registry to encourage effective collaborations between global surgical, obstetric, trauma, and anesthesia (SOTA) communities to serve low- and middle-income countries.

Dr. Perlmutter received his Bachelor of Science and Master of Science degrees from the Ohio State University. Subsequently he received his Doctorate in Medicine from Jefferson Medical College of Thomas Jefferson University in Pennsylvania. After completing his Orthopedic residency training at the Thomas Jefferson University Hospital he completed a Fellowship in Hand Surgery at the Jackson Memorial Hospital (University of Miami), Department of Orthopedic Surgery, Division of Hand Surgery. While he has been in North Carolina since 2015, Dr. Perlmutter spent the bulk of his early years in Orthopedic Surgery in Pennsylvania.

Joining the International College of Surgeons in 2011, Dr. Perlmutter immediately became active in numerous ICS activities. His leadership roles began with an appointment as Pennsylvania Regent in 2014. He has been or is a member of the AMA Advisory Committee, Ethics Committee, CME Committee and the Honors Committee. In 2018, Mark became a member of the United States Section Executive Committee when he was appointed the Chair of the Board of Regents. He has also served as the US Section's Secretary and Treasurer.

Dr. Perlmutter is also the President and Chair of the Board for the American Academy of Neurological and Orthopaedic Surgeons. He has served in this capacity since 2018. As Chair for the Academy he has strengthened the relationship between the United States Section of ICS and the American Academy of Neurological and Orthopaedic Surgeons, allowing both to realize tremendous benefit from this partnership that started over 15 years ago.

Dr. Perlmutter has three adopted children, a son and 2 daughters. He is also anticipating his first grandchild this summer.



**INTRODUCING**  
**LUCIA ZAMORANO, MD, FICS, FAANOS**  
**CHAIR OF THE BOARD**  
**OF THE**  
**AMERICAN ACADEMY OF NEUROLOGICAL**  
**AND ORTHOPAEDIC SURGEONS**  
**FOR THE TERM COMMENCING**  
**JUNE 26, 2021**



Lucia Zamorano, MD, FAANOS, FICS is a Clinical Professor of Neurological Surgery at Oakland University William Beaumont School of Medicine and President and CEO of Michigan Brain and Spine Surgery Center.

Dr. Zamorano graduated with “maximal distinction” from Catholic University, School of Medicine, Santiago, Chile in January 1980. She continued her postgraduate studies with a Residency at the Department of Surgery and Division of Neurosurgery from Catholic University, School of Medicine (1980-1983). Dr. Zamorano became the first female trained neurosurgeon in Chile. In 1983, the German Government awarded her a postgraduate fellowship through the “Deutsche Akademische Austauschdienst” for postgraduate studies in the field of Neurosurgery. Dr. Zamorano did her clinical fellowship at Klinikum Steglitz, Freie Universität in Berlin and Albert-Ludwig Universität of Freiburg. In 1983 Dr. Zamorano was awarded her “Doctor in Medicine” Magna Cum Laude by the Freie University in Berlin.

In 1987 Dr. Zamorano joined Henry Ford Hospital, Detroit as a Clinical Neurosurgery Fellow. In 1989 she became Attending Neurosurgeon, a position held until 1991. She then joined Detroit Medical Center, Wayne State University and Harper University Hospital, as an Associate Professor of Neurosurgery. She was also appointed as Chief of Neurosurgical-Oncology, Stereotaxis, Radiosurgery, Epilepsy and Skull-Base Surgery.

In 1996 Dr. Zamorano was appointed Professor of Neurosurgery and Radiation Oncology for the Department of Neurosurgery, Radiation Oncology and Karmanos Cancer Institute, Wayne State University. She also held the position of Chief of Neurosurgical-Oncology, Stereotaxis, Radiosurgery and Epilepsy Divisions of the Department of Neurosurgery at Wayne State University.

Dr. Zamorano holds numerous honors and awards bestowed both in the United States and internationally. She has published over 600 papers and chapters with a focus in stereotactic neurosurgery, multimodality imaging, image processing, computer assisted surgery, endoscopy, intraoperative imaging, radiation therapy, radiosurgery, Gamma knife, Robotics and Laser applications in neurosurgery.

During her work at Henry Ford Hospital and Wayne State University Dr. Zamorano was dedicated to teaching activities including postgraduate training in neurosurgery. Since 1991, she was the Medical Director of Clinical and Research Fellowship in Stereotaxis, Neurosurgical-Oncology and Radiosurgery at WSU including Gamma knife to train young neurosurgeons in the field of CAS and Radiosurgery. More than 50 neurosurgeons from the USA as well as Europe, North, South America, and Asia trained under her direction and have become major world leaders in the field.

In 2005, Dr. Zamorano established her own neurosurgical practice and founded the Michigan Brain and Spine Surgery Center, with offices in Birmingham, Detroit and Troy, Michigan. The Center is sustained on the pillars of clinical, academic, research and teaching excellence merged with quality service. The mission of the Practice is “to provide the highest quality of neurosurgical care to each of our patients in a compassionate, efficient, effective and personalized manner”. Dr. Zamorano’s philosophy is to provide the best medical care to each patient through the use of and implementation of cutting-edge technologies, effectively optimizing surgical and radiation treatments, thus ultimately improving neurosurgical outcomes. Dr. Zamorano’s work is primarily devoted to Minimally Invasive Brain and Spine Surgery.

On June 13, 2015 Dr. Zamorano received the Lifetime Achievement Award from the American Academy of Neurological and Orthopaedic Surgeons (AANOS) during their Annual Scientific Meeting in Annapolis, Maryland.

# SCIENTIFIC SCHEDULE

## OPENING SESSION GLOBAL SURGERY AND SURGICAL MISSION WORK

**Thursday**

**Passport Ballroom**

**3pm-6pm**

**NOTE:**

**All speakers are listed in Alphabetical order. The speaking order will not be announced in advance of the meeting.**

A primary part of the mission of the International College of Surgeons is to provide humanitarian service to those in need. During this session, participants will hear from a number of individuals who will share their experiences in Global Surgery. Included will be presentations covering: Surgical Challenges; Success Stories; Improving Health Equity; Capacity Building; Developing a GI Tumor Board and Sustainable Global Health. Participants will gain a better understanding of how the covered topics impact global surgery and mission work, thus allowing those who undertake these efforts to provide improved care during these important humanitarian projects.

**Moderators: Mamta Swaroop, MD and Thav Thambi-Pillai, MD,**

**World Surgical Foundation Philippines: A Success Story**

**Domingo T. Alvear, MD, FICS, Mechanicsburg, PA**  
Retired Chief of Pediatric Surgery, UPMC

**Surgical Challenges: A Surgeon's Perspective from the Developing World**

**Suman Baral, MD, Tansen, Nepal**

Assistant Professor, Lumbini Medical College and Teaching Hospital Ltd

**Global Surgery – The Jamaican Map**

**B'jorn Blackwood, MBBS, Kingston, Jamaica**

Medical Officer, Kingston and St. Andrew Health Department, Ministry of Health and Wellness

**The Expansion of Surgical Care Services is Essential in Improving Health Equity**

**Kathryn Campos, BA, Everett, WA**

Independent Student Researcher, University of Washington, School of Medicine - Dept. of Surgery, Harborview Injury Prevention Program

**Surgery in the Developing World**

**Sean Dupont, MD, Sioux Falls, SD**

Clinical Assistant Professor of Surgery - University of South Dakota, Sioux Falls VA Medical Center

**A Rural General Surgery Resident's Guide to Volunteering Internationally**

**Elizabeth Jacob, MD, FICS(Jr.), Cooperstown, MA**

PGY3 General Surgery Resident, Bassett Medical Center

**Establishing a "National" Underserved Rotation during General Surgery Residency**

**Benjamin Jarman, MD, La Crosse, WI**

Gundersen Medical Foundation - General Surgery Residency Program, Director Gundersen Health System - Board of Trustees

**Providing Pathology Expertise for Capacity Building and Cancer Care**

**Yasodha Natkunam, MD, FICS, PhD, Stanford, CA**

Ronald F. Dorfman Endowed Professor in Hematopathology, Stanford University School of Medicine

# SCIENTIFIC SCHEDULE

## OPENING SESSION GLOBAL SURGERY AND SURGICAL MISSION WORK CONTINUED

Speaker: Developing a GI Tumor Board Virtually in a Developing Country  
**Kumaresan Sandrasegaran, MD, Phoenix, AZ**  
Professor of Radiology, Mayo Clinic Arizona

Sustainable Global Health in Surgery: Lessons Learned from the ACS Collaborative  
**Girma Tefera, MD, Madison, WI**  
Faculty, University of Wisconsin School of Medicine and Public Health; Medical Director of Operation Giving Back (ACS)

## AANOS ANNUAL SCIENTIFIC MEETING NEUROLOGICAL AND ORTHOPAEDIC SURGERY PART 1

**Friday**

**Passport Ballroom**

**8:00am-Noon**

**NOTE:**

**All speakers are listed in Alphabetical order. The speaking order will not be announced in advance of the meeting.**

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 are developing two days of programming. Participants in this first session will receive valuable updates on the diagnosis and most advanced treatment options for a variety of Neurosurgical and Orthopaedic conditions. Learners will have a better understanding about the latest treatment options for glioblastoma, hydrocephalus and diffuse idiopathic skeletal hyperostosis. Updates on wide awake hand surgery and the use of MIS expandable inter-body cages will Learners in this session will obtain information to appropriately determine whether further more advanced educational initiatives are required in order to effectively implement the **provided information**

**Moderators:** Mark Perlmutter, MD and Lucia Zamorano, MD

**Surgical Therapies for Glioblastoma**

**Clark Chen, MD, Minneapolis, MN**

Chair, Dept. of Neurosurgery - University of Minnesota

**Novel Direct Oral Anticoagulants: A Review of Specific and Nonspecific Means of Reversal**

**Craig Clark, MD, PhD, FICS, FAANOS, Carrollton, MS**

Neurosurgeon, AANOS Past Chair of the Board

**Pitfalls in the Diagnosis of a Limping Child**

**Maxime J. Coles, MD, FAANOS, Boca Raton, FL**

Orthopedic Surgeon and Traumatologist

# SCIENTIFIC SCHEDULE

## AANOS ANNUAL SCIENTIFIC MEETING

### NEUROLOGICAL AND ORTHOPAEDIC SURGERY PART 1 CONTINUED

New Trends in Hand and Upper Extremity Surgery, 2021

**Mark N. Perlmutter, MD, FICS, FAANOS, Rocky Mount, NC**

Orthopaedic Surgeon, Carolinas Regional Orthopedics

Diffuse Idiopathic Skeletal Hyperostosis (DISH) and Acute Cervical Spinal Cord Injury: Is There a Need for Surgical Intervention?

**Gazanfar Rahmathulla, MBBS (MD), Jacksonville, FL**

Clinical Assistant Professor of Neurosurgery and Medical Director of Neurosurgery Trauma, University of Florida

Wide Awake Hand Surgery in 2021

**Robert Van Demark, Jr., MD, Sioux Falls, SD**

Clinical Professor of Orthopedic Surgery/Section Head University of South Dakota Sanford School of Medicine Sanford Orthopedics and Sports Medicine

CSF Flow Dynamics: Do we really understand CSF flow?

**Shawn Vuong, MD, Sioux Falls, SD**

Neurosurgeon, Sanford Health

Use of MIS Expandable Interbody Cages to Optimize TLIF Outcomes and Segmental Corrections

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

Clinical Professor of Neurosurgery, Oakland University William Beaumont School of Medicine

## CLINICAL TELEMEDICINE AROUND THE WORLD: FROM AD HOC MEDICINE TO MODUS OPERANDI

**Friday**

**June 25**

**8:00am-10:00am**

**NOTE:**

**All speakers are listed in Alphabetical order. The speaking order will not be announced in advance of the meeting.**

Health care professionals now use telemedicine tools to evaluate, diagnose and treat patients at a distance using modern telecommunications technology. This healthcare delivery system has changed dramatically in the past 10 years, especially since the advent of the COVID-19 pandemic. It is now considered by many as an extremely important and necessary aspect of healthcare. This international panel will provide the latest information about how telemedicine is being used around the world.

Upon completion of this session, learners will have a better understanding of how telemedicine is used in other parts of the world as well as here in the United States. Presentation of the most recent information from South Africa and India is planned. The future of telemedicine beyond the COVID pandemic will also be contemplated.

**Moderators:** Rifat Latifi, MD and Demetrius Litwin, MD

Technology Enabled Remote Health Care in India in Public Private Partnership Mode

**Krishnan Ganapathy, MD, Chennai, India**

Director Apollo Telemedicine Networking Foundation; Director, Apollo Tele Health Services; Honorary Distinguished Professor Tamilnadu Dr MGR Medical University

Telemedicine in the Balkans and Cabo Verde: Tales from Two Continents

**Rifat Latifi, MD, FICS, Hawthorne, NY**

Chair and Professor of Surgery; Director, Department of Surgery; Program Director, Surgical Critical Care: Fellowship; Chief of General Surgery; Westchester Medical Center

# SCIENTIFIC SCHEDULE

## CLINICAL TELEMEDICINE AROUND THE WORLD: FROM AD HOC MEDICINE TO MODUS OPERANDI CONTINUED

Telemedicine in Africa

**Maurice Mars, MBChB, MD, South Africa**

Professor of TeleHealth at the University of KwaZulu-Natal

Telemedicine in Northern America: Where do we stand?

**Ronald Weinstein, MD, Tucson, AZ**

The Arizona Telemedicine Program, University of Arizona Health Sciences

## GENERAL PLENARY SESSION

**Friday**

**Passport Ballroom**

**10:15am-Noon**

### NOTE:

**All speakers are listed in Alphabetical order. The speaking order will not be announced in advance of the meeting.**

Representing multiple surgical specialties, ICSUS CME programs are rich in diversity. The multidisciplinary educational sessions presented, seek to provide content that improves the learner's competence, performance or patient outcomes through interaction with peers. ICSUS encourages participants from all specialties to interact and learn from one another, thereby building a broad base of knowledge. In this session compiled from abstracts submitted by ICS Fellows and others, presentations will cover issues related to a variety of topics including: Pediatric Transplant, Closed Incision Negative Pressure Therapy, Metastatic Melanoma, Post-Hepatectomy Biliary Complications, Laparoscopic Cholecystectomy in Severe Cholecystitis, Lower Extremity Tibial Arterial **Disease and, Endorectal**

**Moderators: Joshua Mammen, MD and Zaki Hassan, MD**

**Providing Excellent Outcomes for Pediatric Transplant Recipients in a Geographic Catchment Area of over 350,000 Square Miles**

**Megan Adams, MD, FICS, Denver, CO**

Assistant Professor of Surgery University of Colorado Children's Hospital of Colorado

**Incision and Surrounding Soft Tissue Management of the Breast Using Closed Incision Negative Pressure Therapy with Full-Coverage Dressings**

**Anthony N. Dardano, Jr., FICS, DO, Boca Raton, FL**

Associate Professor of Surgery, Florida Atlantic University, Chief of Plastic Surgery Trauma, Delray Medical

**Metastatic Melanoma-Long Term Survival**

**Raymond A. Dieter, Jr., FICS, MD, MPH, Glen Ellyn, IL**

Adjunct-Olivet/Visiting Researcher UI

**Management of Post-Hepatectomy Biliary Complications**

**Michael J. Jacobs, MD, FICS, Bloomfield Hills, MI**

Clinical Professor of Surgery, Michigan State University CHM

**Surgical Techniques to Achieve Safety Laparoscopic Cholecystectomy in Severe Cholecystitis**

**Kung-Kai Kuo, MD, PhD, FICS, Kaohsiung, Taiwan**

President of ICS-Taiwan Section; Professor in Surgery, University of Kaohsiung Medical University

**Management of Lower Extremity Tibial Arterial Disease: Where Are We and Where Are We Heading?**

**Ehab Sorial, MD, FICS, Los Gatos, CA**

Associate Professor of Surgery

**A Novel Modification of the Endorectal Advancement Flap for Complex Anal Fistulas: Surgical Technique and Outcomes**

**Rebekah Wood, MD, Sioux Falls, SD**

General Surgery Resident



## SCIENTIFIC SCHEDULE

### HONORS LUNCHEON THE DR. ANDRE CROTTI LECTURE

**Friday**

**Passport Ballroom**

**Noon-1:30pm**

Dr. Andre J. Crotti was the first President of the US Section (1937) and the second ICS World President (1938). Dr. Crotti, a founding member of the College, is credited with the development of the College motto: Pro omni humanitate [for all humankind]. Dr. Crotti's abundant contributions to the profession of surgery and the growth, success and prosperity of our United States Section are without question. He will serve as an admirable example for years to come to all those who are selected to receive The Dr. Andre Crotti Award for Distinguished Service to the Profession of Surgery. During this special luncheon presentation, this year's award recipient will share his life-long philosophy on education, whether for students, residents, patients or co-workers.

**Moderator:** Thav Thambi-Pillai, MD

**Surgical Learning Requires....Assessment!**

**David R. Farley, MD, Tower, MN**

Emeritus Professor of Surgery, Mayo Clinic

### MANAGING TRAUMA AND EMERGENCY GENERAL SURGERY

**Friday**

**Passport Ballroom**

**1:30pm-3:30pm**

**NOTE:**

**All speakers are listed in Alphabetical order. The speaking order will not be announced in advance of the meeting.**

Participants in this session will hear from a number of experts about various aspects of trauma and emergency general surgery primarily from a rural surgery perspective. Presentations will include information about: education; continuation of care; disparities in care; emergency medical services; critical care; trauma recidivism and; trauma resuscitation.

**Moderators:** Harry Anderson, III, MD and Tracy Sambo, MD

**Trauma Recidivism in a Rural ACS Level 1 Trauma Center: Has the Paradigm Shifted? Are Elderly Adults More at Risk?**

**Saptarshi Biswas, MD, FICS, Myrtle Beach, SC**

Attending Trauma Surgeon, Department of Trauma, Acute Care Surgery and Surgical Critical Care, Grand Strand Medical Center

**Rural Trauma Education and Training**

**Wilfred Chapleau, EMT-p, RN, TNS, Chicago Heights, IL**

Partner, International PreHospital Medicine Institute, Director of Performance Improvement - American College of Surgeons (Retired), Chief of Chicago Heights Fire Department and Manager Emergency Services and Disaster Agency (Retired)

**Emergency Medical Services**

**Michael Hunter, NRP, TP-C, Holden, MA**

Deputy Chief EMS, UMass Memorial Medical Center

**Rural Trauma: The Continuum of Care**

**Peter Pons, MD, Brighton, CO**

Professor Emeritus, Department of Emergency Medicine, University of Colorado School of Medicine

# SCIENTIFIC SCHEDULE

## MANAGING TRAUMA AND EMERGENCY GENERAL SURGERY CONTINUED

Analyzing Disparities in Trauma Care: A Heavy Burden with Minimal Resource

**Alexandra Reitz, MD, Atlanta, GA**

Resident Physician, Department of Surgery, Emory University

Improving Communication Between Critical Access Hospitals and Regional Trauma Centers

**Brian Schneider, MD, Amarillo, TX**

Associate Professor of Surgery, Texas Tech University Health Science Center

Trauma Resuscitation

**Lance Stuke, MD, MPH, New Orleans, LA**

Professor of Surgery, General Surgery Program Director, LSU Department of Surgery

Critical Care in a Rural Setting - What is Possible - What is not!

**John Weigelt, MD, DVM, MMA, Lead, SD**

Professor of Surgery, University of South Dakota, Sanford School of Medicine

## COVID-19: LESSONS LEARNED

**Friday**

**June 25**

**3:30pm-5:30pm**

**NOTE:**

**All speakers are listed in Alphabetical order. The speaking order will not be announced in advance of the meeting.**

During this session the faculty will present some of the most important lessons that have been learned about COVID-19. Included will be anecdotal evidence as well as clinical data covering the diagnosis, treatment and prevention of the disease from the perspective of not only the United States, but also other parts of the world. The effects of COVID-19 on surgery and other aspects of health care will also be addressed. Perhaps most importantly for ICS, as well as other organizations that have an international focus, will be a presentation that addresses how the pandemic will likely impact global surgery.

**Moderators:** Demetrius Litwin, MD and Siva Vithiananthan, MD

**The Harsh Reality of the Lockdown: Increased Domestic Violence During the Early Peak Phase of COVID 19 pandemic. A Rural Level 1 Trauma Center Experience**

**Saptarshi Biswas, MD, FICS, Myrtle Beach, SC**

Attending Trauma Surgeon, Department of Trauma, Acute Care Surgery and Surgical Critical Care, Grand Strand Medical Center

**Post-Surgical Outcomes in COVID-19**

**Hannah Buettner, MD, Worcester, MA**

Research Fellow, University of Massachusetts Medical School

**The Long-Term Implications of the COVID-19 Pandemic and What it Means for Global Surgery**

**Robert Finberg, MD, Worcester, MA**

UMass Memorial Medical Center, Dept. of Infectious Diseases

# SCIENTIFIC SCHEDULE

## COVID-19: LESSONS LEARNED CONTINUED

**Novel Surgical Response to the Pandemic: Mobilization of Vascular Surgery**

**Dejah Judelson, MD, Worcester, MA**

Assistant Professor of Surgery, Division of Vascular and Endovascular Surgery, University of Massachusetts Medical Center

**The Economic Effects on Acute Care Surgery in a New York City Public Hospital During the COVID Pandemic**

**Anthony Kopatsis, MD, Elmhurst, NY**

Senior Staff, ICAHN School of Medicine at Mount Sinai

**Surgical Manpower Deployment at an Academic Medical Center**

**Anne Larkin, MD, FICS, Shrewsbury, MA**

Associate Professor of Surgery, Vice Chair of Education, Department of Surgery, University of Massachusetts Medical School

**Novel Surgical Response to the Pandemic: Mobilization of Thoracic Surgery**

**Feiran Lou, MD, MS, Worcester, MA**

Assistant Professor of Surgery, UMass Memorial Medical Center

**COVID-19 Management in Rwanda, Perspective of a Low-Income Country**

**Jennifer Rickard, MD, MPH, Minneapolis, MN**

Professor of Surgery, University of Minnesota Honorary Professor, University of Rwanda

**COVID-19: We are All Safety Net Hospitals**

**Ketan Sheth, MD, Cambridge, MA**

Assistant Professor of Surgery, Harvard Medical School



# SCIENTIFIC SCHEDULE

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

**Saturday**

**June 26**

**8:00am-Noon**

**NOTE:**

**All speakers are listed in Alphabetical order. The speaking order will not be announced in advance of the meeting.**

Participants in this second session will receive updates on the diagnosis and treatment options for a variety of Neurosurgical and Orthopaedic maladies. Learners will receive information about: Circumferential Negative Pressure Wound Therapy; Cerebellar Arteriovenous Malformations; and Nerve Sheath Meningiomas. In addition, the following will be discussed: clinical results of various types of high-density polyethylene used in total knee replacement; integrating pain related interventional procedures in a spine practice; an effective, available, affordable model for laboratory surgical **training; and gamma**

**Moderators:** Sudhir Rao, MD and William Welch, MD

**Laboratory Surgical Training Utilizing the Human Anatomy Under Life-Like Conditions**

**Emad Aboud, MD, Sherwood, AR**

Clinical Instructor Creighton University School of Medicine, Surgery Department; Director, Micro-Neurosurgery Lab, Arkansas Neuroscience Institute, Little Rock

**Gamma Knife Radiosurgery and Highly Active Antiretroviral Therapy for the Treatment of AIDS-Related Primary Central Nervous System Lymphoma**

**Andres Alvarez Pinzon, MD, PhD, MHA, San Mateo, CA**

Senior Research Program Manager, University California, San Francisco Fellow, Vascular Neurosurgery and Skull Base Lab, UCSF Consultant Director, Health Sciences Research, Miami Neurosciences Center at Larkin

**Integrating Pain Related Interventional Procedures in a Spine Practice**

**Amit Bhandarkar, MD, Herrin, IL**

Orthopedic Spine Surgeon, St. Mary's Hospital Centralia

**Know your Plastic (Orthopedics)**

**Naga Suresh Cheppalli, MD, FICS, Albuquerque, NM**

Asst. Professor of UNM, Albuquerque; Staff Orthopedic Surgeon VA Hospital

**Primary Optic Nerve Sheath Meningiomas**

**Craig Clark, MD, PhD, FICS, FAANOS, Carrollton, MS**

Neurosurgeon, AANOS Past Chair of the Board

**Management of Soft Tissue Edema in the Lower Extremity using Circumferential Negative Pressure Wound Therapy: A Case report**

**Anthony N. Dardano, Jr., MD, FICS, Boca Raton, FL**

Associate Professor of Surgery, Florida Atlantic University, Chief of Plastic Surgery Trauma, Delray Medical

**Update On Aging Knees**

**Robert Mathews, MD, FICS, Millersville, PA**

Penn Surgery Institute, Penn Medicine Lancaster General Health

# SCIENTIFIC SCHEDULE

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

Cerebellar Arteriovenous Malformations: Treatment Strategy

Jessica R. Pirkle, BS, Rockford, IL

Medical Student, University of Illinois College of Medicine

Update on Current Utilization of Nutraceuticals

Marc Stevens, MD, State Road, SC

Orthopaedic Surgeon

Treatment of Tarlov Cysts

William C. Welch, MD, Philadelphia, PA

Professor of Neurosurgery and Orthopaedic Surgery, Penn Medicine; Chair, Department of Neurosurgery at Pennsylvania Hospital

## RURAL SURGERY: TRAINING AND IN PRACTICE

**Saturday**

**Passport Ballroom**

**8:00am-10:00am**

**NOTE:**

**All speakers are listed in Alphabetical order. The speaking order will not be announced in advance of the meeting.**

A hospital in a rural area typically serves fewer than 50,000 residents and typically over a great distance. While the total number of overall cases may be smaller, the cases that a general surgeon may need to address are far more varied and will typically include procedures that a specialist would address in a metropolitan area. During this session, participants will learn about the requirements of a general surgical career in a rural setting. Topics covered will include: management of several specific issues; special training; challenges; simulation and; shortfalls in current training programs.

**Moderators:** Melissa Johnson, MD and Thav Thambi-Pillai, MD

Rural Surgery and a Rural Surgical Society

Daniel Margo, MD, Grand Rapids, MN

Staff Surgeon

Role of a Rural Surgeon in Managing Burn Patients

William Mohr, MD, St. Paul, MN

Assistant Professor, Department of Surgery, University of Minnesota

The Role of Simulation in Surgical Training

Mariela Rivera, MD, FICS, Rochester, MN

Assistant Professor of Surgery, Mayo Clinic

Colon Cancer Care in the Rural Community: Are We Good Enough?

Michael Sarap, MD, Cambridge, OH

Clinical Instructor, Department of Surgery, Wright State University Boonshoft College of Medicine, Dayton Ohio; Outgoing Chair, American College of Surgeons Advisory Council for Rural Surgery



# SCIENTIFIC SCHEDULE

## RURAL SURGERY: TRAINING AND IN PRACTICE CONTINUED

Addressing the Shortfalls of Current General Surgical Training for Rural Surgery Practices

**Brian Schneider, MD, Amarillo, TX**

Associate Professor of Surgery, Texas Tech University Health Science Center

Challenges in Rural Surgical Practice

**Robert Sticca, MD, Fargo, ND**

Professor and Chairman, Department of Surgery, University of North Dakota SMHS

Training a Rural General Surgeon

**Gary Timmerman, MD, FICS, Sioux Falls, SD**

Professor and Chair, Department of Surgery, USD Sanford Medical School

## PHYSICIAN WELLNESS AND ETHICS

**Saturday**

**Passport Ballroom**

**10:15am-Noon**

**NOTE:**

**All speakers are listed in Alphabetical order. The speaking order will not be announced in advance of the meeting.**

A surgeon's life is typically very hectic. The day-to-day stress of the profession can expedite burn-out and cause other health issues as well. During this session, participants will learn about several approaches to physician well-being. In addition, a primer on retirement planning will be included for both younger and more senior surgeons. Finally, as part of our annual effort to include ethics related programming a discussion of the ethics of a pandemic will be presented.

**Moderators:** Harry Anderson, III, MD and Mariela Rivera, MD

**Plagues and People**

**Frank Bongiorno, MD, MPS, FICS, Murfreesboro, TN**

**Building Well-Being Into Culture: The Sanford Health Experience.**

**Luis Garcia, MD, Sioux Falls, SD**

President, Clinic Sanford Health System Interim Chief Medical Officer Sanford Health Plan Clinical Associate Professor of Surgery University of North Dakota, School of Medicine and Health Sciences

**Success Factors for Retirement: What to Know If Years Away or in Retirement Today**

**David Mandell, JD, MBA, Cincinnati, OH**

Partner, OJM Group; Attorney

**Surgical Resident Wellbeing and the SECOND Trial**

**Jon Ryckman, MD, Sioux Falls, SD**

Assistant Professor, Surgery and Pediatrics, University of South Dakota; Associate Program Director, USD SSOM Residency in General Surgery

**Your Wellness Journey: The Six Pillars of Lifestyle Medicine**

**James Wudel, MD, Sioux Falls, SD**

Clinical Associate Professor of Surgery / CT Surgery, USD SSOM

## SCIENTIFIC SCHEDULE

### LUNCHEON LECTURES INCLUDING DR. ARNO ROSCHER ENDOWED LECTURE

**Saturday**

**Passport Ballroom**

**12:30pm-1:00pm**

Dr. Arno A. Roscher has been a Fellow of the International College of Surgeons since 1968. Dr. Roscher has been very active in ICS activities throughout his over 50 years as a member. He has also held numerous elected leadership positions at both the US Section and International levels. When he contributed \$100,000 to the US Section in 2009 the Dr. Arno A. Roscher Endowed Lecture was established. This year marks the twelfth presentation of this special lecture that has featured renowned physicians presenting on varied topics ranging from the Reduction of Health Disparities to Molecular Genetic Testing to Dr. Raabe's presentation this year on Stem Cell Therapies.

**Moderator:** Thav Thambi-Pillai, MD

**Stem Cell Therapies: Facts or Fiction?**

**Tobias Raabe, PhD, Philadelphia, PA**

Research Assistant Professor of Genetics, Division of Translational Medicine and Human Genetics, Perelman School of Medicine, University of Pennsylvania

### THE INFLUENCE OF ROBOTICS AND TECHNOLOGY IN SURGERY

**Saturday**

**Passport Ballroom**

**1:30pm-3:30pm**

**NOTE:**

**All speakers are listed in Alphabetical order. The speaking order will not be announced in advance of the meeting.**

The use of a robotic surgery system enhances precision, flexibility and control during an operation. The surgeon can see the site better compared with traditional techniques. Using a surgical robot, delicate and complex procedures that may have been difficult or impossible with other approaches can now be achieved. Robotic surgery involves risk and isn't an option for everyone. During this session, participants will learn about the most recent advances and uses of a robotic surgery system in various specialties. In addition, learners will be informed how to implement robotic use in your practice. This session will also include a special presentation by the ICS World President.

**Moderators:** Sahrique Nazir, MD and Hassan Al-Turaihi, MD

**Adopting New Robotic Technologies for Hernia Repair**

**Marcoandrea Giorgi, MD, FICS, Providence, RI**

Assistant Professor of Surgery, The Warren Alpert Medical School of Brown University

**Evolution and Role of Robotic Surgery in the Management of Pancreatic Cancer**

**D. Rohan Jeyarajah, MD, Richardson, TX**

Professor of Surgery, TCU/UNTHSC School of Medicine

**The Role of Endoscopic Myotomy in the Management of Gastrointestinal Motility Disorders**

**Andrew Luhrs, MD, FICS, Providence, RI**

Assistant Professor of Surgery, Brown University

**Becoming a Total Practice Robotic General Surgeon**

**Curtis Peery, MD, Sioux Falls, SD**

Clinical Assistant Professor of Surgery, Sanford University of South Dakota, Director of Bariatric Surgery Sanford USD Medical Center

# SCIENTIFIC SCHEDULE

## THE INFLUENCE OF ROBOTICS AND TECHNOLOGY IN SURGERY CONTINUED

**The Role of 3D Printing in Hepatobiliary Surgery: Challenges and Opportunities**

**Georgios Tsoulfas, MD, PhD, FICS, Thessaloniki, Greece**

Associate Professor of Surgery, Department of Transplantation Surgery, Aristotle University

**Tightening the Belt: New Treatment Therapies for GERD**

**Yalini Vigneswaran, MD, MPH, FICS, Chicago, IL**

Assistant Professor of Surgery, University of Chicago

## ANNUAL RESEARCH SCHOLARSHIP COMPETITION

**Saturday**

**June 26**

**3:30pm-6:00pm**

**NOTE:**

**All speakers are listed in Alphabetical order. The speaking order will not be announced in advance of the meeting.**

Surgical Residents and Medical Students will participate in this annual contest. Submissions will initially be judged by the Scholarship Committee. Qualifying candidates will then make an oral presentation during the Annual Surgical Update. Oral presentations will also be judged by a special panel during the meeting in Minneapolis. Scores will be combined to determine the winners of various prizes (including a monetary grand prize). Attendees will be presented with fascinating information by some of the brightest young minds in medicine.

**Moderators: Moderator: Dixon Santana, MD and Tracy Sambo, MD**

**Definitive Closure of a Ballistic Shotgun Injury with Extensive Soft Tissue Loss to the Right Thigh using ABRA Adhesive Dynamic Tissue System (DTS) and Porcine Urinary Bladder Matrix (PUBM)**

**Rohan Anand, MBA, Amarillo, TX**

Medical Student, Texas Tech University School of Medicine

**Online Survey Among Doctors of Nepal on Re-utilization of Surgical Tools from Developed Nations**

**Shrinit Babel, Lutz, FL**

College Freshman, Pre-Med Student at the University of South Florida, Judy Genshaft Honors College

**Risk Factors for Failure of Non-Operative Management in Patients with Intracranial Hemorrhage and Blunt Splenic Injury**

**Nicole Boswell, BS, Greenville, SC**

Medical Student, University of South Carolina School of Medicine

**Clinical Characteristics, Management, and Outcomes of Patients with Primary Cardiac Angiosarcoma: A Systematic Review**

**Gabriel De la Cruz Ku, MD, Rochester, MN**

Resident Physician, General Surgery, Mayo Clinic

**Early and Late Postoperative Complications of Mandible Reconstruction: Osseous Versus Soft Tissue Flaps**

**Jake Goldstein, Medical Student, FICS(Jr.), Forest Park, IL**

Medical Student, Loyola University Chicago Stritch School of Medicine

## **ANNUAL RESEARCH SCHOLARSHIP COMPETITION (CONTINUED)**

**Lung Cancer in Young Adults: A Single Center Experience**

**Stuart Jones, BS, Lexington, KY**

Medical Student, University of Kentucky

**Systematic Review of Procedural Healthcare Simulation in Low- and Middle-Income Countries**

**Sarah Lund, MD, FICS(Jr.), Rochester, MN**

Resident, Mayo Clinic

**Management of Sternoclavicular Joint Infection: A Single Center Experience**

**Thomas Marsden, MD, Lexington, KY**

Resident, University of Kentucky

**Perioperative Mortality Rate in a Low Resource, Non-Governmental Organization Hospital.**

**Yuki Ng, MBBS, Kuching, Sarawak, Malaysia**

Junior Doctor, Sarawak General Hospital

**Outcomes of Pancreatic Cyst: Analysis of 90,958 Patients from Nationwide Inpatient Sample Database.**

**Kenji Okumura, MD, FICS(Jr.), Valhalla, NY**

Resident, Department of Surgery, Westchester Medical Center and New York Medical College

**Neurosurgical Thoracolumbar Wound Complicated by CSF Fistula Open for 29 Days, Achieved Definitive Suture-less Closure Within 12 Days After Implantation of Porcine Urinary Bladder Matrix**

**Jasmin Rahesh, MS, MBA, Amarillo, TX**

Medical Student, Texas Tech University School of Medicine

**A Closed Loop Clinical Audit on Surgical Safety Checklist**

**Akatya Vidushi Sinha, MBBS, Mumbai, India**

Medical Student, MGM Medical College

**Case Report of Azygous Vein Injury from Blunt Force Trauma: Surgical Management and Literature Review**

**Annie Snitman, Lubbock, TX**

Medical Student, Texas Tech University School of Medicine

**Surgical Training Programs Across Rural Africa Better Prepare Surgeons for Humanitarian Disasters than US-Based Training**

**Michael Traynor, MD, MPH, Rochester, MN**

Resident, Mayo Clinic

## WITH OUR THANKS

The following individuals made financial contributions during the past twelve months to support the United States Section of the International College of Surgeons and its many worthy programs.

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## IN MEMORIAM

That these bodies should be lent to us as long as they can afford us pleasure, assist us in acquiring knowledge and doing good to our fellow man, is a kind act of a benevolent God.

In his time, a physician touches many lives. Those of us whose lives these physicians touched are left greatly saddened, for they are with us no longer.

Yet, in the scheme of the Almighty, they will be forever honored for their noble role on earth as healers of their fellow man.

**CARLOS ACOSTA, MD**  
**NEUROSURGERY**  
**ARLINGTON, TX**

**JESUS L. DE LEON, MD**  
**GENERAL SURGERY**  
**ARLINGTON HEIGHTS, IL**

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## SOCIAL EVENTS

### WELCOME RECEPTION

**Thursday, 6:00pm - 7:00pm**  
**Bradstreet Crafthouse**  
**(lobby level)**

All attendees are invited to participate in our annual welcome reception on Thursday evening. Say hello to old friends and greet new ones as we begin our meeting.

### HONORS LUNCHEON

**Friday, Noon - 1:30pm**  
**Passport Ballroom 1**

Please join us as we honor our leaders, welcome our future leaders and New Fellows, and recognize the Andre Crotti Award recipient.

### PRESIDENT'S APPRECIATION DINNER

**Friday, 6:30-9:00pm**  
**Passport Ballroom I**

ICS-US Section President Dr. Thambi Pillai invites everyone to a dinner in appreciation of your participation and commitment to the success of our meeting and section. The reception will begin at 6:30pm and dinner will begin at 7:00pm.

### GALA CLOSING DINNER

**Saturday, 7:30-11:00pm**  
**Altitude (12th Floor)**

Our annual black-tie optional closing dinner will take place Saturday evening. Tickets must be purchased by noon on Thursday, \$150/person. Please visit the registration desk immediately to purchase.

## REGISTRATION INFORMATION

### Attire

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

### Cancellation Policy

The cancellation deadline was May 24, 2021. Refunds will be issued, minus a \$75 processing fee, upon receipt of written notification **via fax or mail.** Verbal or written cancellations after May 24, will not be honored. Please allow four to six weeks after the meeting for your refund.

### Continuing Medical Education (CME) Information

CME Program Evaluation Forms are only available online. visit [www.ficsonline.org/eval21](http://www.ficsonline.org/eval21) or navigate to the forms using the meeting app. To receive CME Credit, you must complete a Program Evaluation Form for each educational session you attend.

The deadline for submission of all CME Program Evaluation forms is **Monday, July 4, 2021.**

### 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.

### Meeting Registration

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

### 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

Please check-in at the registration desk for assistance with uploading and reviewing your PowerPoint files. All files must be uploaded in advance of your presentation please see registration staff as soon as possible.

### Special Needs

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 in the schedule at a glance. Every effort will be made to facilitate your request.

### Supplemental Registration

This category is not appropriate for physicians who will attend educational sessions. All other individuals who are present at meeting events must register in this category. Including: Spouses, Domestic Partners and Relatives. Included in this registration are: Breakfasts, Coffee Breaks, Lunches, non-ticketed Alliance Activities, and Opening Reception.

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

### Transcripts

You must submit your online CME evaluation 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 e-mailed to you individually.

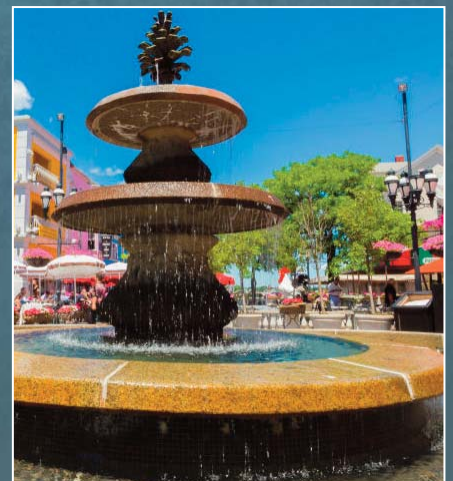
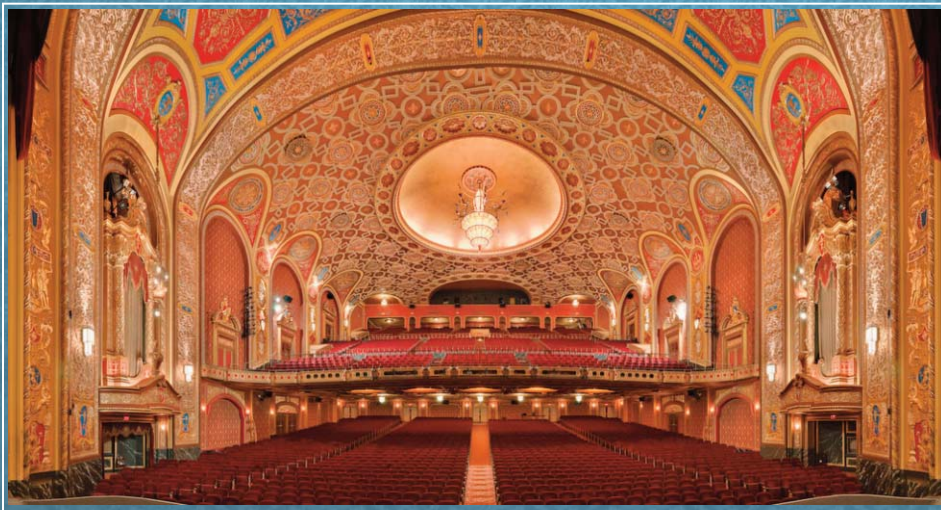


## SAVE THE DATE

Our 2022 Annual Meeting sits in the heart of history and education. The Providence Renaissance Hotel began life as a Masonic Temple that was never completed. After standing empty for 75 years, it finally found a purpose and was opened in 2006 as a hotel and will provide the perfect location for our meeting in Providence, RI - The Creative Capital

Welcome to Providence, Rhode Island! Providence combines the accessibility and friendliness of a small town with the culture and sophistication of a big city. With a thriving arts community, vibrant and diverse neighborhoods, outstanding hotels, a renowned restaurant scene and so many things to do, Providence is the perfect place to visit.

# Save the Date: April 28-30, 2022





## SCHEDULE AT A GLANCE

### THURSDAY

#### REGISTRATION

7:30am-5:30 pm

**PASSPORT BALLROOM FOYER**

#### OFFICER BREAKFAST

7:30am-9:00am

**PASSPORT BALLROOM III C**

#### ICS-US BUSINESS MEETINGS

8:00am-2:30pm

John Scott Surgical Endowment Fund - Board  
of Trustees  
8:00-8:30 am

Executive Committee Meeting Including:  
8:30-11:00am

Board of Trustees, AMA, Bylaws, Ethics, Past  
Presidents, Development, Honors, Scholarship  
and CME Committees and Council of Specialty  
Group Chairs

Board of Regents and Membership Committee  
11:00am – 12:00pm

Executive Council and House of Delegates  
Joint Meeting  
1:00pm – 2:30pm

**PASSPORT BALLROOM III A&B**

#### OPENING SESSION GLOBAL SURGERY AND SURGICAL MISSION WORK

3:00pm-6:00pm

**PASSPORT BALLROOM II**

#### WELCOME RECEPTION

6:00pm-7:00pm

**BRADSTREET CRAFTHOUSE  
(LOBBY LEVEL)**

### FRIDAY

#### REGISTRATION

7:30am-5:00 pm

**PASSPORT BALLROOM FOYER**

#### CONTINENTAL BREAKFAST

7:30am-9:00am

**PASSPORT BALLROOM FOYER**

#### EXHIBIT SHOW

7:30am-5:00pm

**PASSPORT BALLROOM FOYER**

#### ALL-DAY COFFEE BREAK

9:00am-Noon and 2:00-5:00pm

**PASSPORT BALLROOM FOYER**

#### AANOS ANNUAL SCIENTIFIC MEETING

NEUROLOGICAL AND  
ORTHOPAEDIC SURGERY PART 1  
8:00am-Noon  
**PASSPORT BALLROOM III**

CLINICAL TELEMEDICINE AROUND  
THE WORLD: FROM AD HOC  
MEDICINE TO MODUS OPERANDI  
8:00am-10:00am  
**PASSPORT BALLROOM II**

GENERAL PLENARY SESSION  
10:15am-Noon  
**PASSPORT BALLROOM II**

HONORS LUNCHEON AND THE  
DR. ANDRE CROTTI LECTURE  
Noon-1:15pm  
**PASSPORT BALLROOM I**

MANAGING TRAUMA AND  
EMERGENCY GENERAL SURGERY  
1:30-3:30pm  
**PASSPORT BALLROOM II**

COVID-19: LESSONS LEARNED  
3:30-5:30pm  
**PASSPORT BALLROOM II**

AANOS BUSINESS MEETING  
4:30-6:00pm  
**CROSSWINDS**

PRESIDENT'S APPRECIATION  
DINNER  
6:30pm - 9:00pm  
**PASSPORT BALLROOM 1**

### SATURDAY

#### REGISTRATION

7:30-1:00 pm

**PASSPORT BALLROOM FOYER**

#### CONTINENTAL BREAKFAST

7:30am-9:00am

**PASSPORT BALLROOM FOYER**

#### EXHIBIT SHOW

7:30am-3:00pm

**PASSPORT BALLROOM FOYER**

#### ALL-DAY COFFEE BREAK

9:00am-Noon and 2:00-5:30pm

**PASSPORT BALLROOM FOYER**

#### AANOS ANNUAL SCIENTIFIC MEETING

NEUROLOGICAL AND  
ORTHOPAEDIC SURGERY PART II  
8:00am-Noon  
**PASSPORT BALLROOM III**

RURAL SURGERY:  
TRAINING AND IN PRACTICE  
8:00am-10:00am  
**PASSPORT BALLROOM II**

PHYSICIAN WELLNESS AND  
ETHICS  
10:15am-Noon  
**PASSPORT BALLROOM II**

LUNCHEON LECTURE INCLUDING  
DR. ARNO ROSCHER ENDOWED  
LECTURE  
Noon-2:00pm  
**PASSPORT BALLROOM I**

THE INFLUENCE OF ROBOTICS  
AND TECHNOLOGY IN SURGERY  
2:00pm-4:00pm  
**PASSPORT BALLROOM II**

ANNUAL RESEARCH  
SCHOLARSHIP COMPETITION  
4:00pm-6:00pm  
**PASSPORT BALLROOM II**

GALA DINNER  
7:30pm - 10:30pm  
**ALTITUDE  
(12TH FLOOR)**