We are honored to host Ronald V. Maier, MD, FACS as the first annual Sarah V. and Ernest E. Moore Visiting Professor and moderator of the Fourth Annual Department of Surgery Research Symposium.

Dr. Maier is the Vice Chairman in the Department of Surgery at the University of Washington since 1994 as well as the Jane and Donald D. Trunkey Endowed Chair in Trauma Surgery. Dr. Maier is Surgeon-in-Chief at Harborview Medical Center in Seattle, Washington and the current President of the American Surgical Association.

Dr. Maier attended the University of Notre Dame for his undergraduate studies and received his medical degree from Duke University. He did his general surgery residency at the University of Washington and a research fellowship in Immunopathology at Scripps Clinic and Research Foundation. Dr. Maier practices trauma and acute care surgery and serves as the Program Director for the Surgical Critical Care Fellowship at Harborview Medical Center in Seattle, Washington.

Dr. Maier has been a PI or Co-PI on several RO1 and K08 NIH grants as well as CDC grants over the last 30 years. He is author of approximately 360 peer-reviewed publications and nearly 70 book chapters.

He has been honored with awards for excellence in teaching and research throughout his career and he continues to serve as a mentor to surgeons and researchers in training.
Welcome to the Fourth Annual Department of Surgery Research Symposium. This symposium is dedicated to research performed by Residents, Fellows and Faculty of the Department of Surgery, focusing on research performed over the past year. This year, we are pleased to welcome Ronald V. Maier, MD as the Visiting Professor for the first annual Sarah V. and Ernest E. Lectureship in Trauma. Dr. Maier is an accomplished trauma surgeon and scientist, with a successful career in basic science. He demonstrates that a busy clinical surgeon can successfully direct and engage in basic science and translational research, while holding major leadership positions.

We received 26 submissions for presentation this year. The 16 selected speakers represent the broad spectrum of basic/translational science and clinical/outcomes research being performed in the Department of Surgery. Residents and Fellows presenting their research are competing for the Ben Eiseman Outstanding Research for a publication, the Ernest E. Moore Award for best basic science research presentation, and the Frederick L. Grover Award for best clinical science research presentation.

Ben Eiseman Research Award: Inspired by, and in honor of, our own surgical innovator, this is presented annually for the most outstanding first-authored publication in basic science and clinical research. The review committee has selected two manuscripts from each category for presentation today.

Ernest E. Moore Award in Basic Science Research: In honor of Dr. Ernest “Gene” Moore, and in recognition of his significant contributions to basic science in surgery, one resident will receive this award based on outstanding presentation of basic or translational science research.

Frederick L. Grover Award in Clinical Science Research: In honor of Dr. Frederick L. Grover, and in recognition of his significant contributions to clinical science in surgery, one resident will be selected to receive this award based on outstanding presentation of clinical or outcomes science research.

Award recipients will be announced at the Department of Surgery Graduation Dinner.

Congratulations to all the applicants and participants.

Richard D. Schulick, MD, MBA, FACS
The Aragón/Gonzalez-Giústí Chair of Surgery
Robert A. Meguid, MD, MPH, FACS
Surgical Director, Surgical Outcomes and Applied Research

FOURTH ANNUAL DEPARTMENT OF SURGERY RESEARCH SYMPOSIUM
June 5, 2017
Ronald V. Maier, MD, FACS
President, American Surgical Association
Surgeon-In-Chief, Harborview Medical Center, Seattle, WA
Jane and Donald D. Trunkey Endowed Chair in Trauma Surgery
Vice-Chairman, Department of Surgery, University of Washington School of Medicine, Seattle WA

7:00-8:00 AM Department of Surgery Grand Rounds
Bruce Schroffel Conference Center Auditorium
AIP2, 1.771
“Response to Injury and Stress: A Genomic Storm”
Ronald V. Maier, MD

8:15 AM - 11:00 AM Department of Surgery Research Presentations

11:30 AM - 1:00 PM Invited Luncheon for Research Residents
Dean Krugman Conference Room
Research 2

1:30 PM - 3:30 PM Faculty Meetings and SICU Rounds
Denver Health Medical Center

Prior Visiting Professors:
2014 - Clifford Y. Ko, MD, MS, MSHS
2015 - Rosemary Kozar, MD, PhD
2016 - Caprice Greenberg, MD, MPH
## Basic Science

**Mohamed Eldeiry, MD:** The Role of ATP Dependent Potassium Channel in Spinal Cord Ischemic Protection

**Christina Kim, MD:** Maturational Changes in Pulmonary Artery Endothelial Cell Function in vitro and Responsiveness to Insulin Growth Factor-1/Binding Protein 3 in the Developing Sheep Lung

**Patrick Kohtz, MD:** Toll-like Receptor 4 is a Mediator of Proliferation of Esophageal Cancer and Mucosal Cells and is Upregulated in Response to Reflux-related Stimuli in vitro

**Hunter Moore, MD:** Post-reperfusion Fibrinolysis During Liver Transplantation is Associated with Abnormal Citric Acid Cycle Metabolism and Circulating Succinate Depletion*

**Geoffrey Nunns, MD:** Post-Traumatic Acute Lung Injury: The Role of Mitochondrial Metabolite Succinate

**Aline Rau, MD:** Electronic Cigarettes are as Toxic to Skin Flap Survival as Tobacco Cigarettes*

**Robert Torphy, MD:** Tumor Stroma Density as a Biomarker in Pancreatic Cancer

**Bradley Wallace, MD:** Anti-sFlt-1 Antibody Treatments Prevent Respiratory Disease in Experimental Bronchopulmonary Dysplasia

* Ben Eiseman Basic Science Research Award Competition

## Clinical

**Alonso Carrasco, Jr., MD:** Patterns of Care and Survival Comparison of Adult and Pediatric Wilms Tumor in the United States: A Study of the National Cancer Database

**Brandon Chapman, MD:** Survival Outcomes Following Neoadjuvant FOLFIRINOX and Gemcitabine/Abraxane in Patients with Borderline Resectable and Locally Advanced Pancreatic Adenocarcinoma

**Scott Deeney MD:** Impact of Objective Echocardiographic Criteria for Timing of Congenital Diaphragmatic Hernia (CDH) Repair**

**Maggie Hodges, MD:** Pediatric Appendicitis: Is Referral to a Regional Pediatric Center Necessary?**

**Yihan Lin, MD:** Developing National Surgical, Obstetric and Anesthesia Plans - Experience in Zambia**

**Douglas Overbey, MD:** Combined Antibiotic and Mechanical Bowel Preparation is Associated with Lower Anastomotic Leak for all Types of Colectomy

**Camille Stewart:** Evolving Trends Towards Minimally Invasive Surgery for Solid-Pseudopapillary Neoplasms**

** Ben Eiseman Clinical Science Research Award Competition**