Surgical Innovations Symposium

Friday, April 20th, 2018 (7:45am-3:30pm)
Clinical Skills & Education Center
Prior Health Science Library

Key note speaker:
Former NASA astronaut Greg Johnson

Dr. Raphael Pollock, Director of The Ohio State University Comprehensive Cancer Center, will deliver the opening remarks. Learn about cutting edge research and technology in various fields including tissue engineering, critical care, transplant, oncology, anesthesia and other subspecialties. Discover how to connect with expert faculty and encourage interdisciplinary collaborations.

Be a part of our First Surgical Innovations Symposium at The Ohio State University!

For more information please contact Abby Zonker at Email: abby.zonker@osumc.edu or phone: 614.293.9072
Surgical Innovations Symposium

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Clinical Skills & Education Center, Prior Health Science Library

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7:45AM  Registration & Continental Breakfast

8:45AM  Opening Remarks: “Looking Towards the Future”  
Daniel Vazquez, MD, MS

9:00AM  Innovation Opportunities: Bridging the Gap  
Mark Ruegsegger, PhD, PE, Tim Raderstorf, MSN, RN, Chris Paschall, PhD, CLP, RTTP, Leon Madrid

9:45AM  Panel Discussion – Questions & Answers

10:00AM  Military and Aerospace Ventures  
Ian Valerio, MD, MS, MBA, FACS, Peter Lee, MD, PhD, MPH, MS, FACS, FACC, FAsMA, Gregory Knapik, Cameron Rink, PhD, MBA

10:45AM  Panel Discussion – Questions & Answers

11:00AM  Anesthesia, Surgical Critical Care and other Subspecialties  
Daniel Vazquez, MD, MS, Hamdy Elsayed-Awad, MD, Desmond D’Souza, MD, FACS, Sylvester Black, MD, PhD

11:45AM  Panel Discussion – Questions & Answers

12:00PM  LUNCH

1:00PM  Other Technologies in Tissue Engineering and Wound Healing  
Chandan Sen, PhD, John Bailey, MD, Alicia Bertone, DVM, PhD, Dip ACVS, Dip ACVSMR, Heather Powell, PhD

1:45PM  Panel Discussion – Questions & Answers

2:00PM  The International Space Station, a research and innovation platform in space  
Gregory H. Johnson  
Former Astronaut, Executive Director of CASIS

2:45PM  Panel Discussion – Questions & Answers

3:00PM  Debrief: Pitfalls and Success Stories  
Bradley Needleman, MD, FACS, FASMBS

3:30PM  Adjourn
Guest Speaker:
**Gregory Johnson**
Former Astronaut
Executive Director of CASIS

Gregory H. Johnson (Col, USAF, Ret.) is a former air force officer and pilot, aerospace engineer, fighter/test pilot, MBA and NASA astronaut. He is an aerospace consultant and freelances in spaceflight outreach and is a champion of STEM education in multiple networks. Most recently, he served as the President and Executive Director for the Center for the Advancement of Science in Space (CASIS). While in the Air Force, Johnson flew multiple aircraft including the F-15E in combat operations. With NASA, Johnson served as the pilot and primary robotic arm operator aboard Endeavour on the STS-123 and STS-134 missions. After leaving NASA in 2013, Johnson led CASIS, the non-profit that manages the ISS National Laboratory (ISSNL). The CASIS mission is to maximize utilization of the ISSNL by complementing NASA’s traditional projects to facilitate non-traditional, innovative, commercial research and tech demo, and STEM education.

Course Director:
**Daniel Vazquez, MD, MS**
Assistant Professor of Surgery
Medical Director Surgical Intensive Care Unit
Associate Director of Surgical Critical Care Fellowship
Director Surgical Innovations Collaborative

OSU Affiliated Speakers:
**John Bailey, MD**
Associate Professor
Division of Surgical Critical Care
Department of Surgery

**Alicia Bertone, DVM, PhD, Dip ACVS, Dip ACVSMR**
Professor, Equine Orthopedic Surgeon
Director, Comparative Orthopedics Research Laboratories
The Ohio State University Veterinary Clinical Sciences, Galbreath Equine Center

**Sylvester Black, MD, PhD**
Associate Professor of Surgery
Liver Transplant Program
Desmond D'Souza, MD, FACS
Assistant Professor
Division of Thoracic Surgery
Department of Surgery
The Ohio University Wexner Medical Center

Hamdy Elsayed-Awad, MD
Associate Professor of Anesthesiology

Gregory Knapik
Director of Computational Modeling
Senior Researcher
Spine Research Institute
Biodynamics Laboratory

Peter Lee, MD, PhD, MPH, MS, FACS, FACC, FAsMA
Assistant Professor of Surgery
Division of Cardiac Surgery
The Ohio State University Wexner Medical Center

Leon Madrid
Professor – Industry Collaboration
Computer Science & Engineering Department

Bradley Needleman, MD, FACS, FASMBS
Director, Center for Minimally Invasive Surgery
Medical Director, Weight Management and Bariatric Surgery

Christopher Paschall, PhD, CLP, RTTP
Director of Licensing – Biomedical/Life Sciences
Technology Commercialization Office

Heather Powell, PhD
Associate Professor
Department of Materials Science and Engineering
Department of Biomedical Engineering

Tim Raderstorf, MSN, RN
Chief Innovation Officer
Clinical Instructor of Practice
College of Nursing
Cameron Rink, PhD, MBA
Associate Professor
Division of Vascular Diseases and Surgery
Department of Surgery
Davis Heart and Lunch Research Institute

Mark Ruegsegger, PhD, PE
Associate Professor of Practice
Chair, Undergraduate Studies
Department of Biomedical Engineering
The Ohio State University

Chandan Sen, PhD
John H. and Mildred C. Lumley Chair in Medicine
Professor and Vice Chair of Research, Department of Surgery
Associate Dean of Translational Research, College of Medicine
Director, Center for Regenerative Medicine and Cell-Based Therapies
Executive Director, Ohio State Comprehensive Wound Center

Ian Valerio, MD, MS, MBA, FACS
Associate Professor, Clinical Plastic Surgery
Chief, Division of Burn, Wound, and Trauma in Plastic Surgery