

R.O.C.K. Society Annual Winter Meeting
April 7-8, 2017, University of Wisconsin-Madison, Madison, WI
Auditorium – 1st Floor

FRIDAY, APRIL 7, 2017

- 12:00-1:00 Registration
 Lunch on own
- 1:00-1:10 Welcome by R.O.C.K. Society President
 Stephen Y. Nakada, MD, FACS, UW-Madison
- Announcements by Program Planning Committee
 Kristina L. Penniston, PhD, RDN and R. Allan Jhagroo, MD, UW-Madison

- **Session 1 – Microbiome and Stones**

- *Moderators: Kris Penniston, PhD, RDN and Marguerite Hatch, PhD*

- 1:10-1:30 The Role of Bacteria in Urolithiasis
 Dirk Lange, PhD (Nominee), University of British Columbia-Vancouver
- 1:30-1:50 Microbial Network-based Oxalate Metabolism
 Aaron Miller, PhD, Cleveland Clinic
- 1:50-2:10 Comparative Analysis of High Throughput Sequencing Platforms for an Oxalate
 Metabolizing Microbiome
 Anna Zampini, MD, Cleveland Clinic
- 2:10-2:25 **GROUP DISCUSSION**

- **Session 2 – Nominee Presentations**

- *Moderators: Stephen Nakada, MD, FACS (President) and David Goldfarb, MD (Immediate Past President)*

- 2:25-2:30 Introduce Nominees, Review Election Process
 Dirk Lange (session 1), Sero Andonian, Sri Sivalingam, Greg Tasian, Mathew Sorensen (spoke at 2014 meeting)
- 2:30-2:50 An *In Vitro* Analysis of a 3D Software vs. Ellipsoid Formula for Stone Volume
 Determination
 Sri Sivalingam, MD (Nominee), Cleveland Clinic
- 2:50-3:10 Is There a Role for Virtual Reality Simulators in Assessment of Urology Residents'
 Competencies in Endourologic Procedures?
 Sero Andonian, MD, FRCS(C) (Nominee), McGill University
- 3:10-3:30 Oral Antibiotic Exposure and Incident Kidney Stone Disease
 Greg Tasian, MD (Nominee), Children's Hospital of Philadelphia
- 3:30-4:00 **COFFEE BREAK & VISIT EXHIBITORS**

- **Session 3 – Surgical Stone Techniques and Practices**

- *Moderators: Gerhard Fuchs, MD, FACS and Pei Zhong, PhD*

- 4:00-4:20 ESWL vs. RIRS: When is ESWL the Right Choice and When Not?
 Gerhard Fuchs, MD, FACS, University of Southern California
- 4:20-4:40 Controversies in Endourology: Supine? Dust? Observe?
 Manoj Monga, MD, Cleveland Clinic

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- 4:40-5:00 Surface Acoustic Waves at Liquid-solid Boundaries: Implications for Lithotripsy
Pei Zhong, PhD, Duke University
- 5:00-5:20 A Physical Model of Pressure Changes During Ureteroscopy
Brian Eisner, MD, Massachusetts General Hospital
- 5:20-5:40 National Trends in Imaging Following Ureteroscopy and Shockwave Lithotripsy
Jonathan Harper, MD, University of Washington
- 5:40-6:00 **Glenn Preminger:** An Appreciation
Michael Lipkin, MD, Duke University
- 6:00-6:15 **GROUP DISCUSSION**
- 6:15-7:30 **RECEPTION – Fluno Center**
- 7:30 Dinner on own; optional evening activities (*bowling at Union South...*)
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SATURDAY, APRIL 8, 2017

7:30-8:45 a.m. **Business Meeting – Members Only**

Breakfast is available starting at 7:00 a.m. in the Executive Dining Room

- **Session 4 – Fellows, Residents and Students: Short Talks** (10 minutes are allowed for each presentations; this includes time for questions/discussion after each talk)
 - Moderators: *Peggy Pearle, MD, PhD and Michelle Jo Semins, MD*

8:45-10:00

- 1.) CT-Based Diagnosis of Low Vertebral Bone Mineral Density is Associated with Hypercalciuria and Hypocitraturia on Opportunistic Imaging *Nishant Patel, MD, Cleveland Clinic*
- 2.) Comprehensive Radiographic Stone Profile with a Single Click *JR Bell, MD, UW-Madison*
- 3.) Forced Fluid Flushes Stones: Fact or Fiction? *Rajat Jain, MD, Cleveland Clinic*
- 4.) Does Saturation Index Predict Stone Recurrence? *Noah Canvasser, MD, UT-Southwestern*
- 5.) Can a Simplified 12-h Nighttime Urine Collection Predict Urinary Stone Risk? *Bryan Hinck, MD, Cleveland Clinic*
- 6.) Back to Basics: The Effect of Increased Fluid Intake on Urinary pH, *Dan Wollin, MD, Duke University*
- 7.) Evidence of Organic Matter, Protein Catalysis and Stone Dissolution within Human Kidney Stones
Jessica Jia-Wen Saw, University of Illinois Urbana-Champaign
- 8.) A Nomogram for Predicting Ureteral Stone Passage, *Vishnu Ganesan, MD, Cleveland Clinic*
- 9.) Disposable Item Use and Cost in Ureteroscopy, *Justin Ziemba, MD, Johns Hopkins University*

10:00-10:15 **GROUP DISCUSSION**

10:15-10:30 **COFFEE BREAK & VISIT EXHIBITORS**

- **Session 5 – Stone Formation and Pathophysiology I**
 - Moderators: *Ross Holmes, PhD and Jodi Antonelli, MD*

10:30-10:50 Proteome of Stone Matrix

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Jeff Wesson, PhD, MD, Medical College of Wisconsin

- 10:50-11:10 Crystal Growth on Kidney Tissue and on Artificial Basement Membrane
Laurie Gower, PhD, University of Florida
- 11:10-11:30 Altered Post-Translational Modification of S100A9 and Uromodulin in Urine from Recurrent Calcium Stone Formers
Kristine Bergsland, PhD, University of Chicago
- 11:30-11:50 A Cyclic-AMP Dependent Pathway Regulates Intestinal Oxalate Secretion
Jonathan Whittamore, PhD, University of Florida
- 11:50-12:10 Physiological and Physiochemical Basis of Kidney Stone Formation in Dolphins
Khashayar Sakhaee, MD, UT-Southwestern

----- *End of Session* -----

- 12:10-12:30 Update from the Urinary Stone Disease Research Network
Chuck Scales, MD, Duke University

12:30-1:30 p.m. **LUNCH – Executive Dining Room**

• **Session 6 – Stone Formation and Pathophysiology II**

○ *Moderators: Elaine Worcester, MD and Neil Mandel, PhD*

- 1:30-1:50 Bone Disease in Genetic Hypercalciuria Stone Forming Rats
David Bushinsky, MD, University of Rochester
- 1:50-2:10 Bone Fractures in Kidney Stone Formers: Is it Hypercalciuria?
Naim Maalouf, MD, UT-Southwestern
- 2:10-2:30 Renal Papillary Mapping and Quantification of Randall's Plaque in Pediatric Ca₂₊ Stone Formers
Nicole Miller, MD, Vanderbilt University
- 2:30-2:50 Imaging of Stone Precursor Lesions with Ultra-High Resolution, Multi-Energy Whole-Body CT
Sami Dilger, PhD, Mayo Clinic
- 2:50-3:20 **COFFEE BREAK & VISIT EXHIBITORS**

• **Session 7 – Stone Risk and Management**

○ *Moderators: Dean Assimos, MD and Allan Jhagroo, MD*

- 3:20-3:40 The Case for Metabolic Evaluation of Bladder Stone Patients: Association with Nephrolithiasis and Metabolic Syndrome
Mantu Gupta, MD, Mount Sinai
- 3:40-4:00 A Tale of 2 Supplements: Kidney Stone Growth, Calcium and Vitamin D
Juan Calle, MD, Cleveland Clinic
- 4:00-4:20 Vitamin D Repletion and Calcium Stone Risk: A Randomized, Placebo-Controlled Trial
Allan Jhagroo, MD, UW-Madison
- 4:20-4:40 Management of Stones in the Primary Care Setting
Davis Viprakasit, MD, FACS, University of North Carolina

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- 4:40-5:00 Effect of Prior Pregnancy on Stone Risk
Vernon Pais Jr., MD, Dartmouth College
- 5:00-5:20 Early Predictor and Management of Urosepsis Following Ureteroscopic Management of Nephrolithiasis
David Schulsinger, MD, Stonybrook University
- 5:20-5:35 **GROUP DISCUSSION**
- 5:35-5:55 **Featured Presentation:** How a Recording Company, a Rock Band and a Nobel Laureate Developed Computed Tomography
Sutchin Patel, MD, UW-Madison
- 5:55-6:15 **Past President's Talk:** The Cascade of Care of Kidney Stones
David Goldfarb, MD, New York University
- 6:15-6:20 **Outgoing President's Summary/Farewell; Introduce Incoming President**
Stephen Nakada, MD, FACS, UW-Madison; David Bushinsky, MD, University of Rochester
- 6:20-6:30 Announcements, Adjourn for the Day
Kris Penniston, PhD, RDN, UW-Madison
- 7:30-9:30 **GROUP DINNER – Porta Bella Restaurant** (*about half a block from Fluno Center*)
425 N. Frances Street, Mantova Room, 1st Floor
7:30-8:00 p.m.: Reception
8:00 p.m.: Dinner
- 10:00 Optional evening activities (*Essen Haus...*)