

Basic Sciences for Urology Residents

For First and Second Year Urology Residents June 3-8, 2005

William D. Steers, M.D.
Program Director

Registration Deadline: May 27, 2005

Hotel Deadline: May 9, 2005

Scientific Program

Friday, June 3, 2005

Moderator: **William D. Steers, M.D.**

9:00 a.m. – 12:30 p.m.	Optional Course #1 Urodynamics	Mikel L. Gray, Ph.D.	Lithotripter Auditorium, Department of Urology, Hospital West
1:30 – 4:30 p.m.	Optional Course #2 Ultrasound for Urologists	Laurence R. Watson, R.D.M.S.	Lithotripter Auditorium, Department of Urology, Hospital West
9:00 a.m. – 5:00 p.m.	Optional Course #3 Imaging of Urological Diseases	Robert A. Older, M.D.	Jordan Hall – Room #1-17 Lane Road – Jefferson Park Avenue

Note: Lunch is on your own.

Saturday June 4, 2005

Moderator: **William D. Steers, M.D.**

6:30 – 7:30 a.m.	Continental Breakfast		Omni Hotel
7:30 – 8:30 a.m.	Registration/Sign In/Poster Viewing		McLeod Hall – Lobby
8:30 – 8:35 a.m.	Introduction	William D. Steers, M.D.	McLeod Hall – Auditorium
8:35 – 10:30 a.m.	Calculi	Glenn M. Preminger, M.D.	McLeod Hall – Auditorium
10:30 – 10:45 a.m.	Break		McLeod Hall – Room 1006
10:45 – 11:45 a.m.	Calculi (continued)	Glenn M. Preminger, M.D.	McLeod Hall – Auditorium
11:45 a.m. – 12:45 p.m.	Lunch/Poster Viewing		Hospital West/“Corner” Outside – Tent
12:45 – 1:00 p.m.	Sign In		McLeod Hall – Lobby
1:00 – 2:45 p.m.	Anatomy	John F. Redman, M.D.	McLeod Hall – Auditorium

Saturday, June 4 – Wednesday, June 8, 2005

with optional courses on Friday, June 3

University of Virginia, Charlottesville, VA



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2:45–3:00 p.m.	Break		McLeod Hall–Room 1006
3:00–5:00 p.m.	Anatomy (continued)	John F. Redman, M.D.	McLeod Hall–Auditorium

Sunday, June 5, 2005

Moderator: **William D. Steers, M.D.**

6:30–7:30 a.m.	Continental Breakfast Coffee and Tea		Omni Hotel McLeod Hall–Room 1006
7:30–8:30 a.m.	Registration/Sign In/Poster Viewing		McLeod Hall–Lobby
8:30–10:30 a.m.	Molecular Genetics of Urologic Cancer	W. Marston Linehan, M.D.	McLeod Hall–Auditorium
10:30–10:45 a.m.	Break/Poster Viewing		McLeod Hall–Room 1006
10:45 a.m.–12:00 p.m.	BPH	Judd W. Moul, M.D.	McLeod Hall–Auditorium
12:00–1:00 p.m.	Lunch/Poster Viewing		Hospital West/ “Corner” Outside–Tent
12:45–1:00 p.m.	Sign In		McLeod Hall–Lobby
1:00–2:45 p.m.	Pathology	Stacey E. Mills, M.D. Mark A. Weiss, M.D.	McLeod Hall–Auditorium
2:45–3:00 p.m.	Break		McLeod Hall–Room 1006
3:00–5:00 p.m.	Pathology (continued)	Stacey E. Mills, M.D. Mark A. Weiss, M.D.	McLeod Hall–Auditorium

Monday June 6, 2005

Moderator: **Raymond A Costabile, M.D.**

6:30–7:00 a.m.	Continental Breakfast		Omni Hotel
7:30–8:30 a.m.	Registration/Sign In Coffee and Tea		McLeod Hall–Lobby McLeod Hall–Room 1006
8:30–10:00 a.m.	Adrenal Physiology	Robert M. Carey, M.D.	McLeod Hall–Auditorium
10:00–10:15 a.m.	Break		McLeod Hall–Room 1006
10:15–11:15 a.m.	Intersexuality	Jonathan A. Roth, M.D.	McLeod Hall–Auditorium
11:15 a.m.–12:15 p.m.	Reproductive Biology	John T. Herr, Ph.D.	McLeod Hall–Auditorium
12:15–1:15 p.m.	Lunch		Hospital West–Tent Lawn/“Corner”
1:15–1:30 p.m.	Sign In		McLeod Hall–Lobby
1:30–2:30 p.m.	Erectile Dysfunction/Infertility	Raymond A. Costabile, M.D.	McLeod Hall–Auditorium
2:30–3:30 p.m.	Transplant Immunology	Kenneth L. Brayman, M.D., Ph.D.	McLeod Hall–Auditorium
3:30–4:30 p.m.	Microbiology of Sexually Transmitted Diseases	Michael F Rein, M.D.	McLeod Hall–Auditorium

Tuesday, June 7, 2005

Moderator: **William D. Steers, M.D.**

6:30–7:30 a.m.	Continental Breakfast		Omni Hotel
7:30–8:30 a.m.	Registration/Sign In Coffee and Tea		McLeod Hall–Lobby McLeod Hall–Room 1006
8:30–10:45 a.m.	Urodynamics, Uro pharmacology and Neurophysiology	Mikel L. Gray, Ph.D. William D. Steers, M.D.	McLeod Hall–Auditorium
10:45–11:00 a.m.	Break		McLeod Hall–Room 1006

11:00 a.m.–12:00 p.m.	Urodynamics, Uro pharmacology and Neurophysiology (continued)	Mikel L. Gray, Ph.D. William D. Steers, M.D.	McLeod Hall–Auditorium
12:00–1:00 p.m.	Lunch		Hospital West–Tent Lawn/“Corner”
1:00–1:15 p.m.	Sign In		McLeod Hall–Lobby
1:15–3:15 p.m.	Renal Physiology	Kambiz Kalantarina, M.D.	McLeod Hall–Auditorium
3:15–3:30 p.m.	Break		McLeod Hall–Room 1006
3:30–5:30 p.m.	Embryology	Bernhard T. Mittermeyer, M.D.	McLeod Hall–Auditorium

Wednesday, June 8, 2005

Moderator: **Dan Theodorescu, M.D., Ph.D.**

6:30–7:30 a.m.	Continental Breakfast		Omni Hotel
7:30–8:30 a.m.	Registration/Sign In Coffee and Tea		McLeod Hall–Lobby McLeod Hall–Room 1006
8:30–9:30 a.m.	Basic Concepts of Molecular Biology	Dan Theodorescu, M.D., Ph.D.	McLeod Hall–Auditorium
9:30–10:30 a.m.	General Principles of Chemotherapy for Urological Malignancies	William Dahut, M.D.	McLeod Hall–Auditorium
10:30–10:45 a.m.	Break		McLeod Hall–Room 1006
10:45 a.m.–12:15 p.m.	General Principles of Chemotherapy for Urological Malignancies (continued)	William Dahut, M.D.	McLeod Hall–Auditorium
12:15–1:15 p.m.	Lunch		Hospital West–Tent Lawn/“Corner”
1:15–1:30 p.m.	Sign In		McLeod Hall–Lobby
1:30–2:30 p.m.	Antibiotic Therapy	William A. Petri, M.D., Ph.D.	McLeod Hall–Auditorium
2:30–3:30 p.m.	Radionuclides	Patrice K. Rehm, M.D.	McLeod Hall–Auditorium
3:30–3:45 p.m.	Break		McLeod Hall–Room 1006
3:45–4:45 p.m.	Radiation Biology as Applied to Urology	Bernard F. Schneider, M.D.	McLeod Hall–Auditorium

Faculty List

Guest Faculty:

William Dahut, M.D.

Principal Investigator
National Cancer Institute
Center for Cancer Research
Bethesda, MD

W. Marston Linehan, M.D.

Chief, Urologic Oncology Branch
Urologist in Chief
National Cancer Institute
National Institutes of Health
Bethesda, MD

Bernhard T. Mittemeier, M.D.

Professor and Chair
Department of Urology
Texas Tech University Health Sciences
Center
Lubbock, TX

Judd W. Moul, M.D.

Professor and Chair of Urology
Duke University Medical Center
Durham, NC

Glenn M. Preminger, M.D.

Professor of Urologic Surgery
Division of Urologic Surgery
Duke University Medical Center
Director
Duke Comprehensive Kidney Stone
Center
Durham, NC

John F. Redman, M.D.

Professor of Urology
University of Arkansas Medical School
Little Rock, AK

Mark A. Weiss, M.D.

Director of Anatomic Pathology
Tri Health Laboratories
Good Samaritan Hospital
Cincinnati, OH

Local Faculty:

University of Virginia

Kenneth L. Brayman, M.D., Ph.D.

Professor
Department of Surgery

Robert M. Carey, M.D.

Professor
Department of Medicine Endocrinology

Raymond A. Costabile, M.D.

Jay Y. Gillenwater Professor of Urology
Department of Urology

Brant R. Fulmer, M.D.

Clinical Assistant Professor
Department of Urology

Mikel L. Gray, Ph.D.

Associate Professor of Nursing
Department of Urology

John T. Herr, Ph.D.

Professor
Department of Cell Biology

Kambiz Kalantarinia, M.D.

Assistant Professor
Department of Medicine Nephrology

Stacey E. Mills, M.D.

Professor of Pathology
Department of Pathology

Robert A. Older, M.D.

Professor of Radiology and Urology
Department of Radiology

William A. Petri, M.D., Ph.D.

Head, Infectious Diseases
Department of Internal Medicine

Patrice K. Rehm, M.D.

Associate Professor
Department of Radiology

Michael F. Rein, M.D.

Professor
Department of Internal Medicine
Infectious Diseases

Jonathan A. Roth, M.D.

Assistant Professor of Urology
Department of Urology

Bernard F. Schneider, M.D.

Assistant Professor of Radiation
Oncology
Department of Radiology

William D. Steers, M.D.

Professor and Chair of Urology
Department of Urology

Dan Theodorescu, M.D., Ph.D.

Professor of Urology
Department of Urology

Laurence R. Watson, R.D.M.S.

Director of Ultrasound
Department of Urology

Meeting Information

Overview

This week-long conference is designed for first- and second-year residents in urology. Emphasis is on basic sciences and the clinical applicability to urology. The AUA sponsors this course.

Sign In

Attendees must sign in twice daily, in the morning and after lunch. This verifies attendance at this conference.

Registration Desk

The registration desk is open each day from 7:00 to 8:30 a.m. Please come to the registration desk at your earliest convenience to pick up your conference materials and badge. The syllabus is distributed at registration – one per registrant.

Local Transportation

Transportation is provided between the Omni Hotel and the University of Virginia. If you are enrolled in one of the three optional courses on June 3, you are on your own for transportation to and from that course.

Accreditation Statement

The American Urological Association Education and Research, Inc. is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The American Urological Association Education and Research, Inc. takes responsibility for the content, quality and scientific integrity of this CME activity.

Continuing Medical Education Credits

The American Urological Association Education and Research, Inc. designates this educational activity for a maximum of 32.50 Category 1 credits for the scientific program and a maximum of 7.0 for Friday optional courses towards the AMA Physician's Recognition Award. Each physician should claim only those credits that he/she earned in the educational activity.

Disclosure Statement

As a provider accredited by the ACCME, the American Urological Association Education and Research, Inc. must insure balance, independence, objectivity and scientific rigor in all its sponsored activities. All faculty participating in a CME accredited, sponsored program are expected to disclose to the audience any significant financial interest or other relationships with commercial supporters. The intent of this disclosure is not to prevent a speaker from making a presentation, but rather to provide listeners with information on which they can make their own judgments. The American Urological Association reviews all disclosures and works with speakers to eliminate and minimize bias prior to a presentation. It remains for the audience to determine if the speaker's interests or relationships may influence the presentation with regard to exposition or conclusion.

Disclosure of Off-label/Unapproved Uses

The content of this CME activity may contain discussion of off-label uses of some of the agents mentioned. Please consult the prescribing information for full disclosure of approved uses. When unlabeled uses are discussed, these are indicated by the presenter.

Educational Learning Objectives

Upon returning to their residency program, participants should be able to:

- n outline specific applications of basic science knowledge and principles in development of treatment methods;
- n develop a scientific and methodological approach to application of the knowledge gained at the conference;
- n appreciate the changing nature of medicine and patient care in light of ongoing research and discovery;
- n have an ability to critically review newly published findings and their impact on medical practice and patient care; and
- n incorporate continuing study of basic sciences into their lifelong learning process and medical practice.

Urodynamics Optional Course

Course Description:

This pre-conference seminar provides a detailed overview of urodynamic testing techniques including hydrodynamic principles, testing techniques and pitfalls. Emphasis is placed on the interpretation of urodynamics including recognizing abdominal and detrusor physiologic events, urethral resistance during bladder filling and micturition, typing urinary incontinence and recognition of physiologic and technical artifacts.

Educational Objectives:

At the conclusion of this course, participants should be able to:

- n describe hydrodynamic principles essential to urodynamic testing and interpretation;
- n discuss elements of a urodynamic evaluation including uroflowmetry, filling cystometrogram, abdominal and detrusor leak point pressures, sphincter electromyogram, voiding pressure (pressure-flow) study and urethral pressure study;
- n differentiate techniques and diagnostic information obtained on single-channel urodynamic testing, multi-channel urodynamics and videourodynamics; and
- n apply knowledge of hydrodynamics and urodynamic techniques to the interpretation of urodynamic results.

Imaging Optional Course

Course Description:

This one-day course will provide a full review of urologic imaging. The course is presented entirely by computer and allows rapid review of a large amount of case material related to the urinary tract. Topics covered will include: cystic lesions of the

kidney, renal malignancy, urinary tract infection, urinary tract obstruction, filling defects, differential diagnosis of large and small kidneys, adrenal disease, stone disease, urinary tract trauma, the abdominal film, scrotum and testis and urinary tract displacement. The course is designed to be interactive with audience participation and is, therefore, kept to a limited number of attendees.

Educational Objectives:

Upon completion of this course, participant should be able to:

- n identify normal imaging characteristics of the adrenals, urinary tract and scrotum on all types of imaging studies;
- n use the classification system for cystic renal masses as well as the criteria for differentiating benign from malignant lesions;
- n apply the current imaging modalities in the evaluation of stone disease, including non-contrast spiral CT;
- n interpret the appearance of imaging modalities of abnormalities related to the adrenal glands and criteria for differentiating benign adenoma from malignant lesions; and
- n identify and provide differential diagnosis for filling defects of the urinary tract.

Ultrasound for the Urologist Optional Course

Course Description:

Ultrasound is a diagnostic modality at which urologists in practice must now become personally proficient. This course will cover the physical basis of diagnostic ultrasound, essential equipment for general and specialized urological applications, techniques and tips for performance of studies and suggestions for good practice in interpretation and documentation. The course will be extensively illustrated with video and still-image examples of disease and normal anatomy.

Educational Objectives:

Upon completion of this course, the attendee should be able to:

- n discuss the physics of grayscale and Doppler ultrasound;
- n use ultrasound techniques to identify artifacts associated with normal ultrasound images;
- n operate basic controls of an ultrasound machine;
- n generate a professional report;
- n recognize important applications and indications for urological studies;
- n recognize the sonographic appearance of organs of urological interest in health and disease.

Local Transportation

Transportation is provided between the Omni Hotel and the University of Virginia each day. *Enrollees in the optional June 3 courses are responsible for their own transportation on June 3.*

Housing/Hotel Information

Hotel Reservations

Omni Charlottesville Hotel

The Omni Charlottesville Hotel is holding a block of rooms for meeting attendees.

Hotel reservation deadline is Monday, May 9, 2005. After the deadline date, reservation requests will be accepted **on a space available and a rate available basis.**

Discounted rates: \$99 – single
\$99 – double

Two easy ways to make reservations:

Complete the hotel reservation form below and fax it to the Omni at 434-979-4456 or call 434-971-5500.

Very Important: You **must** identify yourself as being with the AUA meeting to receive the special meeting rates. Rates **will not be changed** at check in or check out for guests who fail to identify themselves with the AUA.

Guarantee

All reservations must be guaranteed for late arrival by credit card or personal/cashier's check made payable to the Omni Charlottesville Hotel. Check-in time is 3:00 p.m.; check-out time is 12:00 noon.

Early Departure Fee

If you check out prior to your reserved check-out date, the hotel will add an early check-out fee of \$25 to your account. Advise the hotel at or before check-in of any changes in your length of stay.

About the Hotel

The Omni Charlottesville Hotel is located at 235 W. Main Street in Charlottesville, Virginia, in the heart of the historic district on the Downtown Mall. This area features a wide variety of specialty shops, boutiques and restaurants in an authentically restored setting. The hotel offers an exercise room, men and women's saunas, indoor and outdoor pools, a restaurant and lounge. Complimentary parking is available for hotel guests.

Hotel Reservation Form

Attn: Reservations Department AUA Basic Sciences Course: June 3–8, 2005

235 W. Main Street • Charlottesville, VA 22902

Cut-off Date: The hotel must receive reservation requests no later than **May 9, 2005** to be assured of accommodations at the group rate.

NAME: _____ SHARING ROOM WITH: _____
ADDRESS _____ CITY: _____
STATE: _____ ZIP: _____ PHONE (HOME): _____ (OFFICE): _____

Accommodations: One Guest (\$99) Two Guests (\$99) Non-smoking Room Smoking Room

Note: Third Person sharing double room is an additional charge of \$20.

Arrival Date/Time: _____ Departure Date/Time: _____

Room reservations must be accompanied by one night's deposit for each guest.

 Visa  MasterCard  AmEx  Diner's Club

CARD NUMBER: _____ EXPIRATION DATE: _____

SIGNATURE: _____ DATE: _____

Course Registration Form

Course Registration Required by May 27, 2005.

Basic Sciences June 3–8, 2005

BASIC SCIENCES

Is this a new address? Yes No

FIRST NAME MIDDLE LAST NAME AUA I.D.#

STREET

CITY STATE ZIP/POSTAL CODE

DAYTIME PHONE NUMBER FAX NUMBER SOCIAL SECURITY NUMBER

NAME OF RESIDENCY PROGRAM YEAR OF RESIDENCY

E-MAIL

- \$375 Basic Sciences (BSUR501)
Registration includes: scientific sessions, meeting syllabus, coffee/refreshment breaks, continental breakfasts and lunches.

Optional Courses - First Come, First Served

- \$65 Urodynamics, June 3 (URODY) **limit 20**
 \$65 Ultrasound, June 3 (ULTRA) **limit 50**
 \$100 Imaging, June 3 (IMAGE) **limit 50**

Payment Information

Amount Due: \$ _____

- Check # _____ enclosed with form (Checks must be drawn on a U.S. Bank and made payable in U.S. dollars to AUA Education and Research, Inc.)

-  Visa  MasterCard  AmEx

CARDHOLDER'S NAME

CARD # EXPIRATION SIGNATURE

Conference Confirmation

Space is limited and reservations are accepted in the order received. A written confirmation will be sent from our office approximately two weeks after your registration is received and processed.

Cancellations

Through May 27, 2005 the cancellation fee is \$75. If you cancel by June 2, 2005, the cancellation fee is \$125. There are no refunds after June 2, 2005.

Special Assistance

Let us know if you are differently abled and need assistance. We want to help. Call 800-908-9414 for assistance.

Four Ways to Register



On line at www.auanet.org



Fax completed form with payment information to 410-689-3912



Phone 800-908-9414



Mail completed form and payment to P.O. Box 791080, Baltimore, MD 21279-1080

Questions? Call 800-908-9414