12:50 pm  **CHECK IN:** Test your audio, video, chat box, and raising hands for asking questions. Obtain the link to the Symposium Program Booklet

1:00 pm  **WELCOME AND INTRODUCTIONS:**
Cindy L. Amundsen, MD, Duke KURe PI and Program Director

1:10 pm  **ORAL PLATFORM PRESENTATIONS:**
Moderator: Todd Purves, MD, KURe Mentor

*Basic Science Award*  *Matrix-Metalloproteinase-9 plays a key role in the secretion of nerve growth factor from rat bladder cells*
Aya Hajj, MSc, McGill University, Montreal, Quebec

*KURe Scholar*  *Transcriptome analysis of mouse dorsal root ganglia following recurrent urinary tract infection reveals potential therapeutic targets for pain relief*
Byron Hayes, PhD, Pathology, Duke University

*Clinical Science Award*  *Rural for-profit hospitals are associated with higher reported prices for ureteroscopy with laser lithotripsy among commercially insured patients*
Ian Berger, MD, MSHP, Surgery, Division of Urology, Duke University

1:55 pm  **ORAL ABSTRACT PRESENTATIONS** – Concurrent Sessions

**Session A: Clinical Outcomes & Health Services Research**
Moderators:  Jonathan Routh, MD, MPH, KURe Scholar Alumnus
             Hayley Premo, BS, Medical Student

**Session B: Voiding Dysfunction & Underactive Bladder**
Moderators:  Gabrielle McNary, MD, Urology Resident
             Karl Kreder, MD, MBA, KURe Advisory Committee

**Session C: Nephrolithiasis & Infection**
Moderators:  Derek Ho, PhD, KURe Scholar Alumnus
             Charles Scales, Jr., MD, MSHS, KURe Mentor

3:10 pm  **BREAK**

3:20 pm  **CHRONIC UROLOGIC PAIN DISORDER KEYNOTE SPEAKER:**
J. Curtis Nickel MD, FRCSC, Professor of Urology, Queen's University, Kingston, Ontario
*Managing Urologic Chronic Pelvic Pain Syndromes: Re-evaluating Old Treatments in New Paradigms*
Moderator:  Cassandra Kisby, MD; KURe Scholar

4:00 pm  **PANEL DISCUSSION: CHRONIC UROLOGIC PAIN DISORDERS**
Moderators:  Byron Hayes, PhD, KURe Scholar
             Anissa Cervantes, BS, Medical Student

Panelists:
Michael Chancellor, MD - Director of Neurourology, William Beaumont Hospital
Susan Lutgendorf, PhD - Professor, Psychological and Brain Sciences, Univ. of Iowa
J. Curtis Nickel MD - Professor of Urology, Queen's Univ. at Kingston Canada
Andrew Schrepf, PhD - Professor, Anesthesiology, University of Michigan

4:50 pm  **CLOSING & PREVIEW OF FRIDAY EVENTS:**
Cindy L. Amundsen, MD, Duke KURe PI and Program Director

5:00 pm  **THURSDAY ADJOURNMENT**
11:30 am  **SMALL GROUP DISCUSSIONS WITH EXPERTS** (signup required)

12:50 pm  **CHECK IN:** Test your audio, video, chat box, and raising hands for asking questions. 
          Obtain the link to the Symposium Program Booklet

1:00 pm  **WELCOME AND INTRODUCTIONS:**
          Cindy L. Amundsen, MD, Duke KURe PI and Program Director

1:10 pm  **ORAL PLATFORM PRESENTATIONS:**
          **Moderator:** Jennifer Anger, MD, KURe Advisory Committee

          **KURe Scholar**  **Resistance of urinary microbiome: urinary lactobacilli vary in ability to inhibit uropathogens**
          Tanya Sysoeva, PhD, Univ. of Alabama, KURe Scholar Alumna

          **Translational Science Award**  **Specialized proresolving mediators reverse effects of chronic inflammation in diabetic bladder dysfunction**
          Anissa Cervantes, BS, Duke University

          **KURe Scholar**  **Regenerative medicine approach to augment surgical repair of genitourinary injuries**
          Cassandra Kisby, MD, Division of Urogynecology, Duke University

1:55 pm  **ORAL ABSTRACT PRESENTATIONS** – Concurrent Sessions

**Session D: Overactive Bladder**
          **Moderators:** Jim Hokanson, PhD, KURe Scholar Alumnus
          Petra Popovics, PhD, Previous KURe Symposium Awardee

**Session E: Neuourology**
          **Moderators:** Maryrose Sullivan, PhD, KURe Advisory Committee
          Ian Berger, MD, MSHP, Urology Resident

**Session F: Urologic Development & Reconstruction**
          **Moderators:** Matthew Barber, MD, MHS, Duke, KURe Advisory Committee
          Leonid Aksenov, MD, Duke, Previous KURe Symposium Awardee

3:10 pm  **BREAK**

3:20 pm  **SCIENCE OF THE UNDERACTIVE BLADDER KEYNOTE SPEAKER:**
          Professor Karl-Dietrich Sievert, MD PhD, FACS, FRCS, Chair, Urology Department, Klinikum Lippe, Clinic of the University of Bielefeld

          **Future directions in research and clinical application for patients with underactive bladder**
          **Moderator:** Doug Luchristt, MD, MPH, Previous KURe Symposium Awardee

4:00 pm  **PANEL DISCUSSION: SCIENCE OF THE UNDERACTIVE BLADDER**
          **Moderators:** Eric Gonzalez, PhD, KURe Scholar Alumnus and Michael Odom, PhD, KURe Scholar

          **Panelists:**
          Lori Ann Birder, PhD - Professors, Renal - Electrolyte Division, University of Pittsburgh
          Michael Chancellor, MD - Director of Neurourology, William Beaumont Hospital
          Warren Grill, PhD - Professor, Biomedical Engineering, Duke University
          Karl-Dietrich Sievert, MD PhD - Professor Urology, Detmold, Germany

4:50 pm  **PRESENTATION OF TRAINEE AWARDS AND CLOSING REMARKS**
          Friederike L. Jayes, DVM, PhD, Duke KURe Program Coordinator

5:00 pm  **FRIDAY ADJOURNMENT**