

The Hilton UH Hotel & Conference Center
April 27, 2012
8:00 – 8:55 am Breakfast
8:55 – 9:00 am Opening Remarks in Plaza

Session A: BIOENGINEERING AND SENSING

Session Type: Oral
Time: 9:00 – 10:00 am
Location: Plaza
Faculty Chair: Dr. Joe Charlson

- 9:00 – 9:15 am DECODING REPETITIVE FINGER TAPPING MOVEMENTS WITH
 SCALP ELECTROENCEPHALOGRAPHY
 Andrew Y. Paek*, Harshavardhan Agashe, and Jose L. Contreras-Vidal
- 9:15 – 9:30 am DEVELOPMENT OF FLEXIBLE MULTIMODAL NEURAL PROBES FOR
 STIMULATION AND RECORDING IN THE CENTRAL NERVOUS
 SYSTEM
 Mufaddal M. Gheewala*, John C. Wolfe, Wei-Chuan Shih, and John A. Dani
- 9:30 – 9:45 am DEVELOPMENT OF SELF-ALIGNED INTER-DIGITATED ELECTRODES
 WITHIN A MICROFLUIDIC CHANNEL FOR AN
 ELECTROCHEMILUMINESCENCE SENSOR
 Gauri A. Samel* and Paul Ruchhoeft
- 9:45 – 10:00 am RF-ELECTROMAGNETIC FIELDS INDUCED HEATING OF
 NANOCONSTRUCTS FOR CANCER THERAPEUTICS
 Rohit Pande*, Wanda Zagozdzon-Wosik, Leiming Xie,
 Srimeenakshi Srinivasan, Biana Godin, and Jarek Wosik
- 10:00 – 10:30 am Welcoming Remarks and Addresses in Plaza
10:30 – 10:45 am Coffee Break

Session B: IMAGING AND ELECTROMAGNETICS

Session Type: Oral
Time: 10:45 – 11:30 am
Location: Plaza
Faculty Chair: Dr. Jarek Wosik

- 10:45 – 11:00 am A NOVEL ACTIVE LEARNING ALGORITHM FOR IDENTIFICATION
 OF CELL TYPES IN MULTIPLEXSTAINED HISTOPATHOLOGY
 IMAGES
 R. Padmanabhan*, V. Somasundar, B. Roysam, X. Liao, L. Carin, J. Hu, J.
 Zhu and W. Lee

11:00 – 11:15 am MICROWAVE DIELECTRIC RESONATORS FOR
CHARACTERIZATION OF YBCO THIN FILMS LOSSES IN NORMAL
AND SUPERCONDUCTING STATES
D. Ketharnath*, J. Krupka, E. Galstyan, V. Selvamanickam, and J. Wosik

11:15 – 11:30 am ANALYSIS OF A LINEAR SERIES-FED RECTANGULAR
MICROSTRIP ANTENNA ARRAY
Sohini Sengupta*, David R Jackson and Stuart A Long

11:30 – 12:00 pm Plenary Presentation by Dr. Stefan Murry

12:00 – 1:00 pm Lunch Break in Waldorf Astoria

Session C: POSTER PRESENTATIONS

Time: 1:00 – 3:00 pm

Location: Shamrock

Faculty Chair: Dr. Ji Chen