**International Society for Computerized Electrocardiology**  
**42nd Annual Conference**  
**King and Prince Beach and Golf Resort, St. Simons Island, Georgia, USA**  
**Wednesday, April 19 - Sunday, April 23, 2017**

Jean-Philippe Couderc, PhD  
University of Rochester Medical Center  
*Conference Chair*

David Strauss, MD, PhD  
Food & Drug Administration  
*Conference Co-Chair*

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### CONFERENCE PROGRAM

#### WEDNESDAY, 19 APRIL 2017

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<tr>
<th>Time</th>
<th>Session</th>
<th>Speakers/Topics</th>
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| 1530-1830 | **Pre-Conference Tutorial**                                             | **Dr. Galen Wagner’s Memorial-50 Years of ECG Research and Mentoring**  
Chair: David Strauss, Food & Drug Administration, Silver Spring, Maryland, USA  
1530-1545 **Chair**  
1545-1605 **Overview**  
1605-1625 **Staff Warren, Chesapeake Cardiac Care, Annapolis, Maryland, USA**  
**ECG studies of a human model of ischemia during prolonged angioplasty – STAFF studies and Duke Cardiology fellow research mentoring experience**  
1625-1645 **Peter Clemmensen, Nykoebing Falster Hospital, Nykoebing Falster, Falster, Denmark**  
**Ischemia risk stratification with the ECG – visiting research fellow at Duke – Copenhagen research mentoring experience**  
1645-1700 **Break**  
1700-1720 **Martin Ugander, Karolinska Institute, Stockholm, Sweden**  
**MRI as a "gold standard" for ECG quantification of infarction - Karolinska research mentoring experience**  
1720-1740 **David Strauss, Food & Drug Administration, Silver Spring, Maryland, USA**  
**Validating and applying the Selvester QRS scoring system - Duke medical student research mentoring experience**  
1740-1800 **Robbert Zusterzeel, Food & Drug Administration, Silver Spring, Maryland, USA**  
**Dysynchrony and cardiac resynchronization therapy - Maastricht research mentoring experience**  
1800-1830 **Audience comments about Dr. Wagner and discussion**  
1830-2000 **Opening Reception, cash bar** |
0715-0815  Breakfast

0815-0830  Welcome & Opening Remarks
Jean-Philippe Couderc, University of Rochester Medical Center, Rochester, New York, USA

0830-1035  SESSION I:  Selected Abstracts
Chair:  David Strauss, Food & Drug Administration, Silver Spring, Maryland, USA
0830-0835  Chair
0835-0850  Salah Al-Zaiti, University of Pittsburgh School of Nursing, Pittsburgh, Pennsylvania, USA
A Novel Method to Quantify the Ischemia-Induced, Beat-to-Beat repolarization lability in Standard 12-Lead ECG Signals in Patients with Chest Pain
0850-0905  Discussion
0905-0920  Antonio Luiz Pinho Ribeiro, Federal University of Minas Gerais (UFMG), Brazil
Normal Ranges of Electrocardiogram Measurements for the Brazilian Population
0920-0935  Discussion
0935-0950  Maria Sejersten, Herlev University Hospital, Herlev, Denmark
Electrocardiographic Scores of Myocardium At Risk Underestimate The Risk Region Compared To Measurements By Cardiac Magnetic Resonance In Patients With STEMI
0950-1005  Discussion
1005-1020  Peter van Dam, Cardiac Arrhythmia Center, University of California, Los Angeles, California, USA
Characteristics & Accuracy of a new Vector approach within CIPS to localize PVCs from the 12 lead ECG
1020-1035  Discussion

1035-1055  Break

1055-1230  SESSION II:  ECG and Blood Pressure
Chair:  Gari Clifford, Emory University and Georgia Institute of Technology, Atlanta, Georgia, USA
1055-1100  Chair
1100-1115  Matthew Stanley, Emory University, Atlanta, Georgia, USA
Early Sepsis Detection in Critical Care Patients Utilizing High-Resolution Blood Pressure and ECG Dynamics: A Validation Study
1115-1130  Discussion
1130-1145  Adriana Vest, Emory University, Atlanta, Georgia, USA
A Validated Cardiovascular Dynamics Toolbox for Research
1145-1200  Discussion
1200-1215  Shamim Nemati, Emory University, Atlanta, Georgia, USA
Detecting Heart Failure Using Wearables: A Pilot Study
1215-1230  Discussion

1230-1700  Lunch and Afternoon Discussions

1700-1800  POSTER SESSION 1, cash bar, 1 hosted drink
Poster Session 1 presenters

1800-1900  Dinner
1900-2035  SESSION III: The JTpeak Initiative  
Chair: Mathias Baumert, The University of Adelaide, School of Electrical Engineering, Adelaide, Australia  
1900-1905  Chair  
Overview  
1905-1920  Wojciech Zareba, University of Rochester Medical Center, Rochester, New York, USA  
JT Interval: What Does This Interval Mean?  
1920-1935  Discussion  
1935-1950  Selected Speaker-TBD  
1950-2005  Discussion  
2005-2020  Selected Speaker-TBD  
2020-2035  Discussion  
2035-2055  Break  

2055-2200  SESSION IV: The JTpeak Initiative (PART 2)  
Chair: Mathias Baumert, The University of Adelaide, School of Electrical Engineering, Adelaide, Australia  
2055-2100  Chair  
Review  
2100-2115  Selected Speaker-TBD  
2115-2130  Discussion  
2130-2145  Shiyang Ma, University of Rochester, Department of Biostatistics and Computational Biology, Rochester, New York, USA  
Summary of results from all participants  
2145-2200  Discussion  

2200-2300  POSTER SESSION 1 – Continuing Discussion, cash bar  

FRIDAY, 21 APRIL 2017  
0730-0830  Breakfast  

0830-1005  SESSION V: Visualization of the Digital ECG  
Chair: Raymond Bond, Ulster University, Belfast, United Kingdom  
Co-Chair: Paul Kligfield, Weill Cornell Medical College, New York, New York, USA  
0830-0835  Chair  
Overview  
0835-0850  Roberto Sassi, The University of Milan, Computer Science Department, Milan, Italy  
ECG-PDF and Proposed Tools: A Framework to Preserve and Present the Digital ECG – Two Birds, One Stone?  
0850-0905  Discussion  
0905-0920  Andrew Cairns, Ulster University, Computer Science Research Institute, Belfast, United Kingdom  
Interactive Tablet PC-Based Visualization System for Providing Decision Support in ECG Interpretation  
0920-0935  Discussion  
0935-0950  Alex Page, University of Rochester, Rochester, New York, USA  
Data Mining and Visualizing the Ambulatory ECG  
0950-1005  Discussion
### SESSION VI: Global Measures of Repolarization Heterogeneity

**Chair:**
David Mortara, Mortara Instrument, Inc., Milwaukee, Wisconsin, USA

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<td>1100-1115</td>
<td>Larisa Tereshchenko, Oregon Health and Science University, Knight Cardiovascular Institute, Portland, Oregon, USA</td>
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<td>1115-1130</td>
<td>Discussion</td>
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<td>1130-1200</td>
<td>ISCE Membership Meeting</td>
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### Lunch and Afternoon Discussion

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<td>Poster Session 2, cash bar, 1 hosted drink</td>
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<td>1800-1900</td>
<td>Dinner</td>
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### KENICHI HARUMI PLENARY ADDRESS

Jonathan Steinberg, MD
University of Rochester School of Medicine
Short Hills, NJ

### SESSION VII: Jos Willems Young Investigators Competition

**Chair:**
Mary G. Carey, University of Rochester Medical Center, Rochester, New York, USA

**Co-Chair:**
Shen Luo, StarCare Medical, LLC, Madison, Wisconsin, USA

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<td>2015-2030</td>
<td>Overview</td>
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<td>2030-2045</td>
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<td>2045-2100</td>
<td>Travis Moss, University of Virginia, Charlottesville, Virginia, USA</td>
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<tr>
<td>2100-2115</td>
<td>Discussion</td>
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<td>2115-2130</td>
<td>Golriz Sedaghat, Oregon Health and Science University, Portland, Oregon, USA</td>
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<tr>
<td>2130-2145</td>
<td>Discussion</td>
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### SESSION VIII: The Role of the Electrocardiogram and In Silico Modeling for the Assessment of Proarrhythmic Risk of Drugs

**Chair:** Lars Johannesen, Food & Drug Administration, Silver Spring, Maryland, USA

**0835-0850** Chair Overview

**0850-0905** Gary Mirams, Centre for Mathematical Medicine & Biology, School of Mathematical Sciences, University of Nottingham, Nottingham, United Kingdom

*Mechanistic in Silico Models for Proarrhythmic Risk Prediction*

**0905-0920** Discussion

**0920-0935** Jose Vicente, Food & Drug Administration, Silver Spring, Maryland, USA

*Delineation of Electrophysiological Mechanisms Using the Electrocardiogram: Novel ECG Biomarkers for Proarrhythmic Risk Prediction*

**0935-0950** Discussion

**0950-1005** Jay Mason, University of Utah, Salt Lake City, Utah

*Cardiologist’s Point of View: Novel ECG Biomarkers and In Silico Models for Proarrhythmic Risk Prediction, Are We Ready?*

**1005-1020** Discussion

**1020-1035** Lars Johannesen, Food & Drug Administration, Silver Spring, Maryland, USA

*Evolving Regulatory Paradigm: The Last Mile; What Else is Needed for Implementation of CiPA?*

**1035-1050** Discussion

### SESSION IX: Clinical Applications of Wearable Devices

**Chair:** Suave Lobodzinski, California State University, Long Beach, California, USA

**Co-Chair:** Mark Day, iRhythm Technologies, Inc., San Francisco, California, USA

**1100-1105** Chair Overview

**1105-1120** Emanuela Locati, Hospital Niguarda Ca ‘Granda, Milan, Italy

*ISHNE guidelines (2016) for ambulatory monitoring*

**1120-1135** Discussion

**1135-1150** Roger Aabecherli, Lucerne University of Applied Sciences and Arts, Lucerne, Switzerland

*Wearable Cardiac Monitors – State of the Art and the Future Outlook*

**1150-1205** Discussion

**1205-1220** Suave Lobodzinski, California State University, Long Beach, California, USA

*Limitations and pitfalls of wearable cardiac monitors and their comparison to Holter*

**1220-1235** Selected Speaker-TBD

*Wearable ECG Devices for Afib Detection*

**1235-1250** Discussion
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<tr>
<td>1250-1700</td>
<td>Lunch and Afternoon Discussions</td>
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<td>1600-1700</td>
<td><strong>A TRIBUTE TO MIKE LAKS</strong></td>
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<td>Chair: Suave Lobodzinski, California State University, Long Beach, California, USA</td>
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<td>Speaker: Suave Lobodzinski, California State University, Long Beach, California, USA</td>
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<tr>
<td>1700-1905</td>
<td><strong>SESSION X: ECG Technologies – Debatable Issues</strong></td>
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<td>Chair: Peter Macfarlane, University of Glasgow, Scotland, United Kingdom</td>
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<td>1705-1720</td>
<td>Overview</td>
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<td>1720-1735</td>
<td>Discussion</td>
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<tr>
<td>1735-1750</td>
<td>Is automated ECG interpretation of any value since over-reading is common place in major hospitals?</td>
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<td>For: Martin Burke, University of Chicago Hospital, Chicago, Illinois, USA</td>
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<td>Against: Paul Kligfield, Weill Cornell Medical College, New York, New York, USA</td>
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<td>1750-1805</td>
<td>Discussion</td>
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<td>Is 24/7 monitoring out of a hospital a viable concept when nursing staff switch off alarms in hospitals?</td>
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<td>For: Claire Sommargren, University of California, San Francisco, California, USA</td>
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<td>Against: Barbara Drew, University of California, San Francisco, California, USA</td>
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<td>1820-1835</td>
<td>Discussion</td>
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<td>1835-1850</td>
<td>ECG imaging is a superb technique, but is it clinically cost-effective?</td>
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<td>For: Peter van Dam, Cardiac Arrhythmia Center, University of California, Los Angeles, California, USA</td>
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<td>Against: Roger Abaecherli, Lucerne University of Applied Sciences and Arts, Lucerne, Switzerland</td>
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<td>1850-1905</td>
<td>Discussion</td>
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<td>1915</td>
<td><strong>Dinner Banquet</strong></td>
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<td>- Conference Chair’s Remarks</td>
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<td>0730-0900</td>
<td>Closing Breakfast</td>
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**SUNDAY, 23 APRIL 2017**