

PRE-MEETING WORKSHOPS AGENDA

THURSDAY, OCTOBER 27, 2011

Workshop A: Investment Opportunities in Diabetes Technology

08:00 **Moderators:**
John Ryan, MBA
Onset Ventures, Menlo Park, California

Ross Jaffe, MD
Versant Ventures, Menlo Park, California

Panel 1: Insulin Delivery Technology

08:10 **Investment Opportunities in Insulin Delivery**
Barry Ginsberg, MD, PhD
Diabetes Technology Consultants, Wyckoff, New Jersey

08:20 **Today's Insulin Pumps—Tomorrow's Artificial Pancreas**
John Walsh, PA, CDE
Advanced Metabolic Care + Research, Escondido, California

08:30 **Insulin Pump Investing: Opportunities and Lessons Learned**
Dan Galles, MBA
HLM Venture Partners, San Francisco, California

08:40 **Panel Discussion**

Panel 2: Obesity Technology

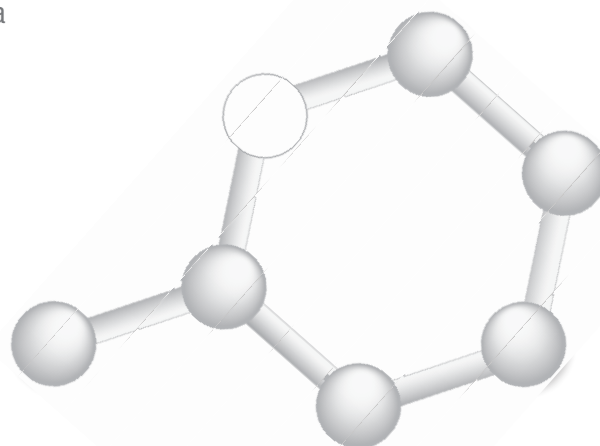
09:05 **Medical Therapy for Obesity**
Marc Reitman, MD, PhD
National Institutes of Health, Bethesda, Maryland

09:15 **Surgery to Treat Type 2 Diabetes and Morbid Obesity**
L. Albert Wetter, MD
Mills-Peninsula Medical Center, Burlingame, California

09:25 **Investment Opportunities in Obesity Technology**
Corey Mulloy, MBA
Highland Capital Partners, Menlo Park, California

09:35 **Panel Discussion**

10:00 **Break**



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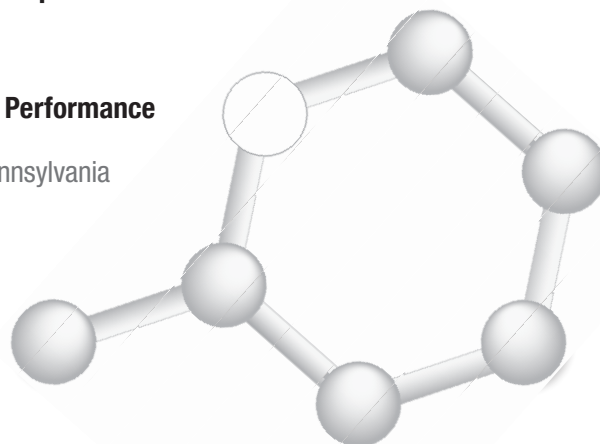
Panel 3: Social Media

- 10:25 **Medicine and the New Media**
David Kerr, MD, FRCPE
Bournemouth Diabetes and Endocrine Centre, Bournemouth, England
- 10:35 **The Consumer Health Revolution**
John de Souza, MBA, MS
MedHelp, San Francisco, California
- 10:45 **Social Media and Diabetes**
Ross Jaffe, MD
Versant Ventures, Menlo Park, California
- 10:55 **Panel Discussion**
- 11:30 **End of workshop/lunch**

Workshop B: Implanted Sensors — Physiological Considerations

Academic Panel

- 08:00 **Moderators:**
Natalie Wisniewski, PhD
Medical Device Consultancy, San Francisco, California
- Fotios Papadimitrakopoulos, PhD
University of Connecticut, Storrs, Connecticut
- 08:05 **Microcirculatory Considerations in Glucose Monitoring: Impact of Stem Cell Modification**
Bruce Klitzman, PhD
Duke University, Durham, North Carolina
- 08:20 **Design Constraints for Sensor Engineers: Understanding the *In Vivo* Environment**
Natalie Wisniewski, PhD
Medical Device Consultancy, San Francisco, California
- 08:35 **Effect of Diabetes on the Skin Blood Flow Response to Environmental Temperature**
Jerrold Petrofsky, PhD
Loma Linda University, Loma Linda, California
- 08:50 **Effects of Implantation on Glucose Sensor Performance**
Jeffrey Joseph, DO
Thomas Jefferson University, Philadelphia, Pennsylvania
- 09:05 **Panel Discussion**
- 09:35 **Break**



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Industry Panel

- 10:00 **Moderators:**
Gerold Grodsky, PhD
University of California, San Francisco, San Francisco, California
- Julia Mader, MD
Medical University of Graz, Graz, Austria
- 10:05 **The Impact of Physiological Time Lag on Continuous Glucose Monitoring Devices**
D. Barry Keenan, PhD
Medtronic Diabetes, Northridge, California
- 10:17 **Insights into Interstitial Fluid Glucose from Five Generations of DexCom Continuous Glucose Monitoring Systems**
Thomas Peyser, PhD
DexCom Inc., San Diego, California
- 10:29 **Implantable Radio-Frequency-Powered Fluorescence-Based Glucose Sensor**
Todd Whitehurst, MD
Sensors for Medicine and Science, Inc., Germantown, Maryland
- 10:41 **Subcutaneously Implanted Glucose Sensors: Requirements and Challenges for Performance in the Interstitial Fluid Compartment**
Francesco Valgimigli, PhD
A. Menarini Diagnostics, Florence, Italy
- 10:53 **Panel Discussion**
- 11:30 **End of workshop/lunch**

Workshop C: New Developments in Self-Monitoring of Blood Glucose

Academic Panel

- 12:30 **Moderators:**
Koji Sode, PhD
Tokyo University of Agriculture and Technology, Tokyo, Japan
- Darrell Wilson, PhD
Stanford University, Stanford, California
- 12:35 **Fluorescence Lifetime-Based Glucose Sensing with a Glucose/Galactose-Binding Protein**
John Pickup, MD, PhD
King's College London School of Medicine, London, England
- 12:50 **Determining Blood Glucose Meter Accuracy**
James Nichols, PhD, DABCC, FACB
Baystate Health, Springfield, Massachusetts

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13:05 **Food and Drug Administration Perspectives for Self-Monitoring of Blood Glucose**
Courtney Harper, PhD
U.S. Food and Drug Administration, Silver Spring, Maryland

13:20 **Role of Self-Monitoring of Blood Glucose in Non-Insulin-Treated Type 2 Diabetes**
David Klonoff, MD, FACP
Mills-Peninsula Health Services, San Mateo, California
University of California, San Francisco, San Francisco, California

13:35 **Panel Discussion**

14:15 **Break**

Industry Panel

14:40 **Moderators:**
Kari Nerhus, MS
University of Bergen, Bergen, Norway

W. Kenneth Ward, MD
Oregon Health and Science University, Portland, Oregon

14:45 **Self-Monitoring of Blood Glucose is a Medically Meaningful Intervention**
Matthias Axel Schweitzer, MD, MBA
Roche Diagnostics GmbH, Mannheim, Germany

14:57 **Clinical Characterization of a Novel, High Performance System for Self-Monitoring of Blood Glucose**
David Simmons, MD
Bayer HealthCare LLC, Tarrytown, New York

15:09 **Pattern Recognition: Enabling Insight and Action through Blood Glucose Monitoring**
Praveen Raja, PhD
LifeScan, Inc., Milpitas, California

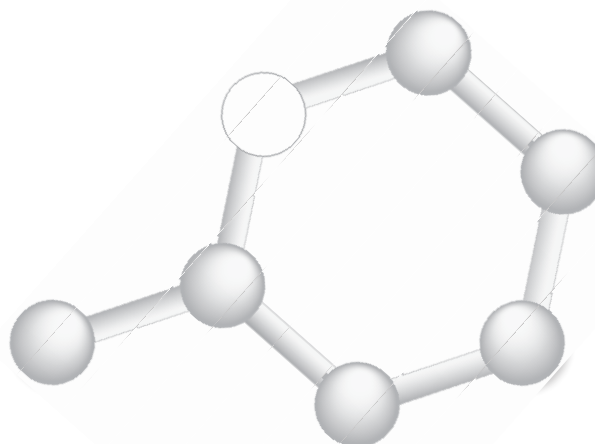
15:21 **Self-Powered Sensors for Extended Continuous Glucose Measurements**
Ben Feldman, PhD
Abbott Diabetes Care, Alameda, California

15:33 **Panel Discussion**

16:00 **End of workshop**

16:05–18:30 **Poster Session**

18:30–20:00 **Posters remain on display for viewing**



DIABETES TECHNOLOGY MEETING AGENDA

FRIDAY, OCTOBER 28, 2011

Session I: Information Technology

- 08:00 **Introduction**
Eric Sampson, PhD
Centers for Disease Control, Atlanta, Georgia
- 08:05 **Moderators:**
Charles Peterson, MD
U.S. Army, Telemedicine and Advanced Technology Research Center, Fort Detrick, Maryland

Jan Wojcicki, PhD, DSc
Institute of Biocybernetics, Warsaw, Poland
- 08:10 **How Can Clinical Data Repositories in Health Care Information Exchange Solutions Support Managing and Improving Diabetes Care?**
John Hatem, MSN, RN
Oracle, Redwood City, California
- 08:25 **Diabetes Care Management and the Cloud: What's Taking So Long?**
Zach Little, BS
Microsoft, Seattle, Washington
- 08:40 **Care Innovations Guide Engages and Empowers Patients**
Marcus Grindstaff, BS
Intel-GE Care Innovations, Roseville, California
- 08:55 **Panel Discussion**
- 09:30 **End of session/Break**

Session II: Decision Support Software

- 09:50 **Moderators:**
Carol Herman, RN
U.S. Food and Drug Administration, Silver Spring, Maryland

Elena Hernando Pérez, PhD
Universidad Politécnica de Madrid, Madrid, Spain
- 09:55 **Diabetes Technology Society Leadership Award**
- 10:00 **Food and Drug Administration: An Office of *in Vitro* Diagnostic Device Evaluation and Safety Perspective**
Courtney Harper, PhD
U.S. Food and Drug Administration, Silver Spring, Maryland
- 10:15 **Hospital Devices: A Food and Drug Administration Perspective on Insulin Dose Calculators**
Charles Zimlik, PhD
U.S. Food and Drug Administration, Silver Spring, Maryland
- 10:30 **A Clinical Perspective of Decision Support Software Embedded into Insulin Pumps**
Bruce Bode, MD, FACE
Atlanta Diabetes Associates, Atlanta, Georgia
- 10:45 **Interim Safety Results and Experiences from Clinical Use of the Glucosafe System in the Intensive Care Unit**
Ulrike Pielmeier, PhD
Aalborg University, Aalborg, Denmark

DIABETES TECHNOLOGY MEETING AGENDA

FRIDAY, OCTOBER 28, 2011

- 11:00 **Panel Discussion**
11:30 **End of session/Lunch**

Session III: Artificial Pancreas: Scientific

- 12:30 **Moderator:**
Jeffrey Joseph, DO
Thomas Jefferson University, Philadelphia, Pennsylvania
- 12:35 **Artificial Pancreas Award**
- 12:40 **Food and Drug Administration Guidance on Artificial Pancreas Systems**
Charles Zimlik, PhD
U.S. Food and Drug Administration, Silver Spring, Maryland
- 12:55 **AP@home: Will We Bring the Artificial Pancreas Home?**
Lutz Heinemann, PhD
Profil Institute for Metabolic Research, Neuss, Germany
- 13:10 **Model Predictive Control for Closed-Loop Insulin Delivery**
Roman Hovorka, PhD
University of Cambridge, Cambridge, England
- 13:25 **Proportional-Integral-Derivative Approach versus Model Predictive Control:
The Case for Proportional Integral Derivative**
Garry Steil, PhD
Children's Hospital Boston, Boston, Massachusetts
- 13:40 **Panel Discussion**
- 14:20 **End of session/Break**

Session IV: Artificial Pancreas: Clinical

- 14:45 **Moderator:**
J. Geoffrey Chase, PhD
University of Canterbury, Christchurch, New Zealand
- 14:50 **Artificial Pancreas: Clinical Approaches**
Bruce Buckingham, MD
Stanford University, Stanford, California
- 15:05 **Artificial Pancreas: Clinical Approaches**
Howard Zisser, MD
Sansum Diabetes Research Institute, Santa Barbara, California
- 15:20 **Artificial Pancreas: Technology and Clinical Trials**
Boris Kovatchev, PhD
University of Virginia, Charlottesville, Virginia
- 15:35 **Panel Discussion**
- 16:00 **Adjourn**
- 16:05–18:30 **Poster Session**
- 18:30–20:00 **Posters remain on display for viewing**

DIABETES TECHNOLOGY MEETING AGENDA

SATURDAY, OCTOBER 29, 2011

Session V: Technologies for Metabolic Monitoring

- 08:00 **Moderators:**
Dorian Liepmann, PhD
University of California, Berkeley, Berkeley, California
- Athanassios Sambanis, PhD
Georgia Institute of Technology, Atlanta, Georgia
- 08:05 **Exhaled Gas Analysis as a Novel Technology for Metabolic Monitoring in Diabetes**
Pietro Galassetti, MD, PhD
University of California, Irvine, Irvine, California
- 08:20 **An Engineered Alternative Design to Self-Monitoring Blood Glucose**
Jeffrey LaBelle, PhD
Arizona State University, Tempe, Arizona
- 08:35 **New Technologies for Improved Performance in Blood Glucose Monitoring**
Richard Stadterman, MA, MBA
Bayer HealthCare LLC, Tarrytown, New York
- 08:50 **Performance of Wearable Raman Spectrometer for Noninvasive Glucose Measurement**
Rudy Hofmeister, PhD
C8 MediSensors, San Jose, California
- 09:05 **Panel Discussion**
- 09:30 **End of Session/Break**

Session VI: Hypoglycemia Detection

- 10:05 **Moderators:**
B. Wayne Bequette, PhD
Rensselaer Polytechnic Institute, Troy, New York
- Lutz Heinemann, PhD
Profil Institute for Metabolic Research, Neuss, Germany
- 10:10 **Veo: A Sensor-Augmented Pump with Low Glucose Suspend**
Francine Kaufman, MD
Medtronic Diabetes, Northridge, California
- 10:25 **The Brain is a Biosensor for Hypoglycemia**
Henning Beck-Nielsen, MD, DMSc
Odense University Hospital, Odense, Denmark
- 10:40 **Juvenile Diabetes Research Foundation (JDRF) Student Research Award**
- 10:45 **Presentation by JDRF Student Research Award Winner**
- 11:00 **Panel Discussion**
- 11:30 **End of session/Lunch**

