

# Agenda - Thursday, November 5, 2009

## Pre-Meeting Workshops

### **Workshop A – Investment Opportunities in Diabetes Technology**

- 08:25      Panel 1: Introductory Overview  
              Nick Pliam, MD, PhD  
              Bay City Capital, San Francisco, California  
              John Ryan, MBA  
              Onset Ventures, Menlo Park, California
- 08:40      Panel 2: Glucose and Analyte Monitoring
- Noninvasive Glucose Monitoring  
              Warren Grundfest, MD, FACS  
              University of California, Los Angeles, Los Angeles, California
- Glucose and Analyte Monitoring with Respect to Regulatory Issues  
              Steven Gutman, MD  
              University of Central Florida, Orlando, Florida
- Hospital Diabetes Monitoring and Insulin Delivery  
              Jeffrey Joseph, DO  
              Thomas Jefferson University, Philadelphia, Pennsylvania
- 09:45      Panel 3: Insulin and Metabolic Peptide Delivery
- Benefits and Drawbacks of Insulin Pump Therapy  
              John Pickup, MD, PhD  
              Guy's Hospital, London, England
- Insulin Pump Therapy in Type 2 Diabetes  
              Poul Strange, MD, PhD  
              Phase 1 to 4 LLC, Princeton Junction, New Jersey
- Patient Preferences for Insulin Pump Therapy in Type 1 and Type 2 Diabetes  
              Gloria Yee, RN, CDE  
              University of California, San Francisco, San Francisco, California
- 10:50      Break
- 11:15      Panel 4: Lifestyle Management
- Food Engineering  
              Todd Abraham, PhD, MBA  
              Kraft Foods Inc., Northfield, Illinois
- Surgical Technologies for Treating Obesity  
              William Plovanic, CFA  
              Canaccord Adams, Chicago, Illinois
- The Payer's Perspective on Lifestyle Intervention  
              Jeff Klonoff, MPH, MBA, CPA, CFP  
              Hewitt Associates, San Francisco, California
- 12:20      Conclusion
- 12:25      End of Workshop
- 12:25      Lunch

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## Pre-Meeting Workshops

### **Workshop B – Hemoglobin A1c Laboratory and Clinical Advances**

#### Laboratory and Diagnostic Panel

- 08:25 Moderator  
Jan Krouwer, PhD  
Krouwer Consulting, Sherborn, Massachusetts
- 08:30 Biologic Variability in Hemoglobin A1c and Its Implications for Estimated Average Glucose and the Diagnosis of Diabetes  
Robert Cohen, MD  
University of Cincinnati, Cincinnati, Ohio
- 09:05 Hemoglobin A1c Standardization: Progress and Current Issues  
Randie Little, PhD  
University of Missouri, Columbia, Missouri
- 09:25 Blood Spot Testing for Hemoglobin A1c  
Sanjay Kapur, PhD, MBA  
ZRT Laboratory, LLC, Beaverton, Oregon
- 09:45 Is Setting a Target Hemoglobin A1c Treatment Goal of 7% Reasonable?  
Trefor Higgins, MSc, FCACB  
DynaLIFE<sub>dx</sub>, Edmonton, Canada
- 10:00 Q & A and Panel Discussion
- 10:20 Break

#### Clinical Panel

- 10:45 Moderator  
Howard Zisser, MD  
Sansum Diabetes Research Institute, Santa Barbara, California
- 10:50 Toward More Rational Utilization of Hemoglobin A1c  
George Cembrowski, MD, PhD  
University of Alberta, Edmonton, Canada
- 11:10 Point-of-Care Hemoglobin A1c Testing in an Emergency Room Setting  
Michelle Magee, MD, CDE  
Georgetown University, Washington, District of Columbia
- 11:30 Use of 1,5-Anhydroglucitol for Assisting Postprandial Hyperglycemia  
Michael Shanik, MD  
Island Endocrinology, PC, Smithtown, New York
- 11:50 An Alternate Technology for Assessing Mean Glycemia: Dermal Fluorescence  
Marwood Ediger, PhD  
VeraLight, Inc., Albuquerque, New Mexico
- 12:05 Q & A and Panel Discussion
- 12:25 End of Workshop
- 12:25 Lunch

# Agenda - Thursday, November 5, 2009

## Pre-Meeting Workshops

### **Workshop C – Blood Glucose Monitoring: Decision Support and Data Management**

#### Academic Panel

- 13:25      Moderators  
              Richard Bergenstal, MD                      Stephen Gitelman, MD  
              International Diabetes Center,            University of California, San Francisco,  
              Minneapolis, Minnesota                San Francisco, California
- 13:30      Developing Clinical Decision Support Systems to Guide Therapy Using Self-Monitoring of Blood Glucose  
              David Rodbard, MD  
              Biomedical Informatics Consultants LLC, Potomac, Maryland
- 13:50      Model-Based Prediction of Blood Glucose for Decision Support in Diabetes: Pros and Cons  
              Ole Hejlesen, PhD  
              Aalborg University, Aalborg, Denmark
- 14:10      A Comparison of Seven-Point Self-Monitoring of Blood Glucose Testing and Continuous Glucose Monitoring  
              Guido Freckmann, MD  
              Institute for Diabetes Technology, Ulm, Germany
- 14:30      The Kaiser Algorithm for Glucose Control  
              Marc Jaffe, MD  
              Kaiser South San Francisco Medical Center, South San Francisco, California
- 14:50      Ambulatory Glucose Profile: A Universal Interactive Report to Facilitate Clinical Decision Making  
              Employing Continuous Glucose Monitoring  
              Roger Mazze, PhD  
              International Diabetes Center, Minneapolis, Minnesota
- 15:05      Q & A and Panel Discussion
- 15:25      Break

#### Industry Panel

- 15:50      Moderators  
              Richard Bergenstal, MD                      Stephen Gitelman, MD  
              International Diabetes Center,            University of California, San Francisco,  
              Minneapolis, Minnesota                San Francisco, California
- 15:55      Leveraging Technologies in Glucose Monitoring: Continuous Glucose Monitoring and Self-Monitoring  
              of Blood Glucose  
              Matthias Axel Schweitzer, MD, MBA  
              Roche Diagnostics GmbH, Mannheim, Germany
- 16:15      Clinical Decision Support to Guide Glucose Management  
              David Price, MD  
              LifeScan, Inc., Milpitas, California
- 16:35      Patient-Guided Insulin Adjustments  
              Israel Hodish, MD, PhD  
              Hygiea, Ann Arbor, Michigan
- 16:55      Innovative Strategies for Inpatient Blood Glucose Data Management  
              Denise Zito, BS, MT(ASCP)SI  
              Medical Automation Systems, Inc., Charlottesville, Virginia
- 17:10      Q & A and Panel Discussion
- 17:30      End of Workshop
- 17:30-20:00      Reception and Poster Presentation
- 20:00-22:00      Posters Remain on Display for Viewing

# Agenda - Thursday, November 5, 2009

## Pre-Meeting Workshops

### **Workshop D – Future Drugs for Diabetes and Obesity**

- 13:25 Moderator  
Umesh Masharani, MD  
University of California, San Francisco, San Francisco, California
- 13:30 Current Drugs for Diabetes and What Is Needed in the Future  
Robert Rushakoff, MD  
University of San Francisco, San Francisco, California
- 13:50 Alternative Routes of Insulin and Peptide Administration  
Lutz Heinemann, PhD  
Science & Co., Düsseldorf, Germany
- 14:10 Future Drugs for Diabetes  
Alexander Fleming, MD  
Kinexum, Harpers Ferry, West Virginia
- 14:30 Future Drugs for Obesity  
Frank Greenway, MD, FACP  
Louisiana State University, Baton Rouge, Louisiana
- 14:45 Q & A and Panel Discussion
- 15:10 Break
- 15:35 Moderators  
Robert Burk, MD  
Albert Einstein College of Medicine, Bronx, New York  
Gerald Sydorak, MD  
Burlingame, California
- 15:55 Drug Development Technology  
Jeffrey Trimmer, PhD  
Entelos, Inc., Foster City, California
- 16:15 Challenges in Conducting Clinical Trials of New Diabetes Drugs  
Wayman Wendell Cheatham, MD, FACE  
U.S. Navy, Bureau of Medicine and Surgery, Washington, District of Columbia
- 16:35 Conducting Diabetes Drug Clinical Trials: Regulatory Aspects  
Carl Anderson  
Tacoma, Washington
- 16:55 Will Bariatric Surgery Replace Drugs for Type 2 Diabetes?  
Pamela Foster, MD, FACS  
Peninsula Surgical Specialists Medical Group, Burlingame, California
- 17:10 Q & A and Panel Discussion
- 17:30 End of Workshop
- 17:30-20:00 Reception and Poster Presentation
- 20:00-22:00 Posters Remain on Display for Viewing

# Agenda - Friday, November 6, 2009

## Ninth Annual Diabetes Technology Meeting

07:00 Continental Breakfast

### Session I: Technologies for Metabolic Monitoring

- 08:00 Welcoming Remarks  
Carol Herman, RN  
Center for Devices and Radiological Health,  
U.S. Food and Drug Administration, Silver Spring, Maryland
- 08:05 Introduction  
David Klonoff, MD, FACP  
Mills-Peninsula Health Services, San Mateo, California;  
University of California, San Francisco, San Francisco, California
- 08:10 Moderator  
COL Karl Friedl, PhD  
U.S. Army, TATRC, Fort Detrick, Maryland
- 08:15 Keynote Address: Diabetes in the 21<sup>st</sup> Century  
Alfred Mann, MS  
MannKind Corporation, Valencia, California
- 08:35 Tattoo Technology for Managing Glucose  
Heather Clark, PhD  
Draper Laboratory, Cambridge, Massachusetts
- 08:55 Raman Spectroscopy for Noninvasive Glucose Monitoring  
Jan Lipson, PhD  
C8 MediSensors, Inc., Los Gatos, California
- 09:15 First Report of the Accuracy of Continuous Glucose Monitoring Using Glucose-Binding Protein (GBP)  
Kevin Judge, MD  
BD Technologies, Research Triangle Park, North Carolina
- 09:35 Sensor-Augmented Pump Therapy: Results of a Recently Completed Trial  
Jeroen Hermanides, MD  
Academic Medical Center, Amsterdam, The Netherlands
- 09:50 Q & A and Panel Discussion
- 10:10 Break

### Session II: Biomarkers for Type 2 Diabetes

- 10:35 Moderator  
Lt Col Mark True, MD, FACP  
Lackland Air Force Base, San Antonio, Texas
- 10:40 Circulating Serum Protein Markers of Type 2 Diabetes  
Andreas Pfützner, MD, PhD  
IKFE Institute for Clinical Research, Mainz, Germany
- 11:05 A Multimarker Model for Assessing Risk of Type 2 Diabetes  
Michael McKenna, PhD  
Tethys Bioscience, Inc., Emeryville, California
- 11:30 Exercise Performance Biomarkers  
Kong Chen, PhD, MSCI  
National Institutes of Health, Bethesda, Maryland
- 11:55 Q & A and Panel Discussion
- 12:20 End of Session
- 12:20 Lunch

# Agenda - Friday, November 6, 2009

## Ninth Annual Diabetes Technology Meeting

### Session III: Artificial Pancreas—Continuing Glucose Monitoring Alarms

- 13:30 Moderators  
Jeffrey Joseph, DO  
Thomas Jefferson University, Philadelphia, Pennsylvania  
Marc Torjman, PhD  
University of Medicine and Dentistry of New Jersey, Camden, New Jersey
- 13:35 Artificial Pancreas Research Award
- 13:40 Alarm Characterization and Accuracy Criteria for a Continuous Glucose Monitor That Could Replace Self-Monitoring of Blood Glucose Testing  
Geoffrey McGarraugh, MS  
Abbott Diabetes Care, Alameda, California
- 14:00 Real-Time Continuous Glucose Monitoring Alarms and Considerations for Patients  
John Mastrototaro, PhD  
Medtronic Diabetes, Northridge, California
- 14:20 Analytical Methods for Assessment of the Efficacy of Alerts and Alarms of Continuous Glucose Sensors  
Jim Brauker, PhD  
Dexcom, San Diego, California
- 14:40 Accuracy of Continuous Glucose Monitoring Alarms and Its Relationship to the Effectiveness of Open- and Closed-Loop Control  
Boris Kovatchev, PhD  
University of Virginia, Charlottesville, Virginia
- 15:00 Overnight Closed-Loop Insulin Delivery  
Roman Hovorka, PhD  
University of Cambridge, Cambridge, England
- 15:15 Q & A and Panel Discussion
- 15:40 Break

### Session IV: Artificial Pancreas—The Food and Drug Administration's Point of View\* (\*CNE Accredited)

- 16:05 Moderators  
Jeffrey Joseph, DO  
Thomas Jefferson University, Philadelphia, Pennsylvania  
Marc Torjman, PhD  
University of Medicine and Dentistry of New Jersey, Camden, New Jersey
- 16:10 Panel Members  
Patricia Beaston, MD  
U.S. Food and Drug Administration, Silver Spring, Maryland  
Arleen Pinkos, MT(ASCP)  
U.S. Food and Drug Administration, Silver Spring, Maryland  
Joy Samuels-Reid, MD, FAAP  
U.S. Food and Drug Administration, Silver Spring, Maryland  
Charles Zimlik, PhD  
U.S. Food and Drug Administration, Silver Spring, Maryland
- 17:30 End of Session
- 17:30-20:00 Reception and Poster Presentation
- 20:00-22:00 Posters Remain on Display for Viewing

# Agenda - Saturday, November 7, 2009

## Ninth Annual Diabetes Technology Meeting

07:00 Continental Breakfast

### Session V: Alternate Delivery Routes for Insulin and Metabolic Peptides

08:00 Diabetes Technology Leadership Award

David Klonoff, MD, FACP

Mills-Peninsula Health Services, San Mateo, California;

University of California, San Francisco, San Francisco, California

08:05 Moderators

Gerold Grodsky, PhD

University of California, San Francisco, San Francisco, California

Athanassios Sambanis, PhD

Georgia Institute of Technology, Atlanta, Georgia

08:10 Fulfilling the Promise of Diabetes Technology: From Pumps to an Artificial Pancreas

William Tamborlane, MD

Yale University, New Haven, Connecticut

08:30 When to Add Insulin in Type 2 Diabetes Patients Who Are Failing Oral Agents and/or Glucagon-Like Peptide-1 Therapy

Janet McGill, MD

Washington University, St. Louis, Missouri

08:50 Insulin Delivery Technology: Injection Techniques and Needle Lengths

Paul Hofman, MD

University of Auckland, Auckland, New Zealand

09:10 Closed-Loop Glycemic Control: The Importance of Insulin Kinetics

Kenneth Ward, MD

Oregon Health Services University, Portland, Oregon

09:30 The Technology and Clinical Aspects of Nasal Insulin Therapy

Lance Berman, MD

CPEX Pharmaceuticals, Inc., Exeter, New Hampshire

09:50 IN-105: A Novel Insulin Analogue

Anand Khedkar, MSc(Tech)

Biocon Limited, Bangalore, India

10:05 Q & A and Panel Discussion

10:30 Break

### Session VI: Diabetes Telemedicine\* (\*CNE Accredited)

11:10 Moderators

Riccardo Bellazzi, PhD

University of Pavia, Italy

Jan Wojcicki, PhD, DSc

Institute of Biocybernetics, Warsaw, Poland

11:15 Telemedicine Support for Real-Time Continuous Glucose Monitoring

Mercedes Rigla, MD, PhD

Hospital de Sabadell, Barcelona, Spain

11:35 A Diabetes Telemedicine System with Decision Support: Two-Year Update

Eckhard Salzsieder, PhD

Institute of Diabetes, Karlsburg, Germany

11:55 Peterson Student Award and Winner Presentation

12:15 Q & A and Panel Discussion

12:30 End of Session

12:30 Lunch

# Agenda - Saturday, November 7, 2009

## Ninth Annual Diabetes Technology Meeting

### Session VII: Hospital Technology

- 13:30 Moderators  
Dorian Liepmann, PhD  
University of California, Berkeley, Berkeley, California  
Ann Sheehy, MD, MS  
University of Wisconsin, Madison, Wisconsin
- 13:35 Clinical Aspects of Tight Glycemic Control in the Hospital  
Douglas Coursin, MD  
University of Wisconsin, Madison, Wisconsin
- 13:55 How Glucose Should be Measured in the Intensive Care Unit  
Martin Ellmerer, PhD  
Medical University Graz, Graz, Austria
- 14:15 A Novel Fluorescent Intravascular Sensor for Continuous Glucose Monitoring in the Intensive Care Unit  
Thomas Peyser, PhD  
Glumetrics, Irvine, California
- 14:30 Q & A and Panel Discussion
- 14:50 Break

### Session VIII: Technologies for Improving Adherence to Therapy\* (\*CNE Accredited)

- 15:15 Moderator  
John Pickup, MD, PhD  
Guy's Hospital, London, England
- 15:20 Technology and Adherence: What Is the Link?  
Robert Gabbay, MD, PhD  
Pennsylvania State University, Hershey, Pennsylvania
- 15:40 Efficacy of Continuous Glucose Monitoring in Patients with Type 2 Diabetes Mellitus  
COL Robert Vigersky, MD  
U.S. Army, Walter Reed Army Medical Center, Washington, District of Columbia
- 16:00 Panel Discussion: A Challenge to Industry—What Technology Do We Need for Improving Adherence and Outcomes?  
Daniel Crowe, MD  
Southborough Medical Group, Southborough, Massachusetts  
Neesha Ramchandani, PNP, CDE  
Maimonides Medical Center, Brooklyn, New York  
Brian Hipszer, PhD  
Thomas Jefferson University, Philadelphia, Pennsylvania  
Amy Tenderich, MA  
Diabetes Mine, San Francisco, California
- 17:00 End of Session

### Session IX: Live Demonstration\* (\*CNE Accredited)

- 17:05 Moderator  
John Pickup, MD, PhD  
Guy's Hospital, London, England
- 17:10 Live Demonstration of the U.S. Army Warfighter Physiological Status Monitor  
Mark Buller, ScM  
U.S. Army, Research Institute of Environmental Medicine, Natick, Massachusetts
- 17:30 End of Meeting