Sunday, September 21

12 p.m. – 5 p.m.  
**Registration Open**  
Grand Sierra Registration South

1 p.m. – 5 p.m.  
**Pre-Conference Training Sessions**

- **I2SL Introductory Course: High-Performance, Low-Energy Design**
  Curacao 1  
  Dan Doyle, Grumman/Butkus Associates  
  Punit Jain, Cannon Design

- **Energy-Efficient Laboratory Ventilation Design Practices and Technologies**
  Curacao 2  
  Gordon Sharp, Aircuity, Inc.

3 p.m. – 3:30 p.m.  
**Afternoon Break**  
Grand Sierra Foyer

8 p.m. – 10 p.m.  
**Free Movie: Chasing Ice**  
Curacao 1

**Conference Sponsors**

I2SL would like to thank the following organizations for their generous support of the 2014 I2SL Annual Conference:

- Siemens
- AEI Affiliated Engineers
- Laboratory Design
- Phoenix Controls
- H+K
- Priorclave North America

As of 9/17/14
Monday, September 22

7:30 a.m. – 7 p.m.
Registration Open
Grand Sierra Registration South

7:30 a.m. – 8:30 a.m.
Continental Breakfast
Grand Sierra Foyer

8:30 a.m. – 10:30 a.m.
Opening Plenary Session
Grand Sierra C

- Master of Ceremonies
  Jim Plourde, Schneider Electric

- I2SL Welcoming Remarks
  Phil Wirdzek, I2SL

- U.S. Department of Energy Remarks
  Timothy Unruh, Federal Energy Management Program

- Panel Discussion
  Thaddeus Seymour, Jr., Lake Nona Institute, Moderator
  Philip Arlen, Revolution Medicine, Panelist
  Stephen Gardell, Sanford-Burnham Medical Research Institute, Panelist

- Presentation of Go Beyond Awards
  Phil Wirdzek, I2SL
  Lindsay Hock, Laboratory Design Newsletter

10:30 a.m. – 11 a.m.
Morning Break
Grand Sierra Foyer

11 a.m. – 12:30 p.m.
Session A1: Planning for Carbon Neutral R&D Campuses: Part 1
Bonaire 1
Moderator: Ken Collins, Lab-works Architecture

- The Path to a Climate Neutral Cornell
  Randy Lacey, Cornell University

- The University of California’s Plan to Achieve Carbon Neutrality
  Wendell Brase, University of California, Irvine

- National Renewable Energy Laboratory (NREL) Buildings and Campus Carbon Neutral Strategies and Results
  Otto Van Geet, NREL

Session A2: Ventilation Strategies for User Spaces
Bonaire 3
Moderator: Rod Mahdavi, Lawrence Berkeley National Laboratory (LBNL)

- The Cost of Directional Airflow
  Victoria Herman, Merrick & Company
  Cory Ziegler, Merrick & Company

- Upgrading Ventilation in Existing Labs: Beyond the Balance
  James Coogan, Siemens Building Technologies

- Right-Sizing Energy Efficient Cleanrooms: Lessons Learned from Harvard LISE and Other Peer Institutions
  Jacob Werner, Wilson Architects
  Jacob Knowles, Bard, Rao + Athanas Consulting Engineers

Session A3: Slaying Cold Storage Energy Dragons
Bonaire 5
Moderator: Joe DelPozzo, WSP Group

- High-Efficiency Ultra-Low-Temperature Laboratory Freezers: Field Demonstration Results
  Rebecca Legett, Navigant Consulting, Inc.

- Case Studies in Selecting a Differentiated Ultra Low Temperature Freezer
  Neill Lane, Stirling Ultracold
Improved Controls for Energy Efficiency in Laboratory Cold Rooms
Daniel McCormick, National Resource Management, Inc.

Session A4: Spotlight on Laboratory Lighting Strategies
Bonaire 7
Moderator: Erik Lustgarten, Steffian Bradley Architects

Fenestration: More Than Natural Light
Carlos Perez-Rubio, HERA Laboratory Planners
David Miller, HERA Laboratory Planners

Animal Laboratory Day/Night Light Cycles
Jeff Serle, Germfree Laboratories, Inc.

Laboratory Lighting and Control Options and Case Studies
Christopher Rush, Arup

Curacao 5
Moderator: Vytenis Milunas, University of Illinois at Chicago

Broad View and Sharp Focus on Sustainable Lab Facilities
Franco Atassi, Siemens

Schneider Electric’s Laboratory ESCO Presentation
Jim Plourde, Schneider Electric

A Template For Third Party Financed Energy Efficiency Projects
Dan Doyle, Grumman/Butkus Associates

Bolstering Energy Leadership in the Federal Government

1:30 p.m. – 3:00 p.m.

Session B1: Carbon Neutral and Environmentally Sustainable Labs: They Do Exist!
Bonaire 1
Moderator: Dan Doyle, Grumman/Butkus Associates

LEEDing the Way at Argonne National Laboratory
Clare Swanson, HDR
Karen Kosky, Argonne National Laboratory

A Zero Net Energy Teaching Laboratory
Jacob Knowles, Bard, Rao + Athanas Consulting Engineers
Jim Moses, Sasaki Associates

Sustainable Infrastructure and Research Districts
David Green, Perkins+Will

Session B2: Letting the Air Out: Ventilation Standards and Applications
Bonaire 3
Moderator: Aimee Smith, Rowan Williams Davies & Irwin Inc.

Cornell University Lab Design Standard Revision
Ellen Sweet, Cornell University

Optimizing Airflows for Laboratories
Shruti Kasarekar, Atelier Ten
Brian Meinrath, Atelier Ten

Energy-Efficient Design of Cleanroom Air Management Systems
Greg Owen, Jacobs

Session B3: Using Metering to Change Behaviors
Bonaire 5
Moderator: Michelle Gangel, PGAV Architects

Sub-metering and Advanced Metrics: Save Time, Money, Energy, and Prevent Lost Research!
Matthew Gudorf, University of California, Irvine
Christopher Hartley, MelRok LLC
Modifying Energy Auditor’s Behavior to Align with Facility Owner’s Needs
Tabitha Sprau Coulter, Pennsylvania State University

Sizable Sustainability at the Science and Engineering Laboratory Building
Robert Shea, BSA LifeStructures

Session B4: Achieving Sustainability in Difficult Labs: Part 1
Bonaire 7
Moderator: Susan Turner, Bailey Edward

Lab Infrastructure Retrofit and Renovation: The JC Wilt Infectious Disease Research Centre
Kevin Humeniuk, Architecture49 Inc.

Big Science – Accelerating Underground; Some Pointers to Successful Design Delivery
Craig Covil, Arup

Creating Optimal Dental Health Simulation Laboratories and Human Patient Simulation Suites to Support Interprofessional Education
Punit Jain, Cannon Design
Michael McManis, AT Still University

Curacao 5
Moderator: Vytenis Milunas, University of Illinois at Chicago

Performance Contracting – Lesson Learned
Marvin Kirshenbaum, Argonne National Laboratory

Successful Third Party Financing in High-Tech Facilities
Beth Shearer, Beth Shearer and Associates, Inc.

Panel Discussion

3 p.m. – 3:30 p.m.
Afternoon Break
Grand Sierra Foyer

3:30 p.m. – 5 p.m.

Session C1: Uncovering Clues to Help with Carbon Neutral Projects
Bonaire 1
Moderator: Gordon Sharp, Aircuity, Inc.

Energy Metering in a Multi-Tenant High-Rise Laboratory Building
Timothy Stoll, BioMed Realty Trust

Optimized Energy Recovery – Closing the Loop on Recycling Waste Heat
Marvin Kirshenbaum, Argonne National Laboratory

Justifying Lab Retrofits Through Mechanical Masterplanning
David Leever, Burns & McDonnell
Joshua Morejohn, University of California, Davis

Session C2: Gotcha! Energy Recovery in Labs: Part 1
Bonaire 3
Moderator: Thomas Smith, Exposure Control Technologies, Inc.

Energy Recovery Options for Liquid Effluent Decontamination Systems
Cory Ziegler, Merrick & Company
Gary Schmidt, PRI Bio

Design by Committee: Why Good is Preferred Over Great
Cory Ziegler, Merrick & Company

Thermally Decoupling Laboratory Ventilation Loads: Strategies to Decrease Outside Air Consumed by Laboratories
Michael Luster, MEP Associates, LLC

Session C3: BIM and Its Growing Importance for Labs
Bonaire 5
Moderator: Kevin Brettmann, JE Dunn Construction
Thermal Programming and Profiling Using BIM Tools
Vikram Sami, ZGF Architects LLP

Leveraging BIM to Meet Sustainable Design Goals
Rishi Nandi, Payette
Julian Astbury, Arup

The Importance of BIM and Efficient Laboratory Systems at the OUS/OHSU Collaborative Life Sciences Building and Skourtes Tower
John McMichael, Interface Engineering
Wade Snyder, JE Dunn Construction

Session C4: Achieving Sustainability in Difficult Labs: Part 2
Bonaire 7
Moderator: Amorette Getty, University of California, Santa Barbara

An Approach to Sustainability at the Community Level: the UCSD Centralized Research Support Facility
Thomas Mistretta, HDR
Philip Richter, University of California, San Diego

Sustainable Healthcare in Urban Environment
Dave Tash, AECOM
Tyson Woodby, AECOM
Bob Moore, The Whiting-Turner Contracting Company

Creative Laboratory Renovations at Yale University While Maintaining Historic Significance of the Sterling Chemistry Building
Punit Jain, Cannon Design

Session C5: University of California, Irvine, Smart Labs Initiative: How to Apply It at Your Facilities
Curacao 5
Moderator: Otto Van Geet, NREL

University of California, Irvine, Smart Labs Initiative: How to Apply It at Your Facilities
Wendell Brase, University of California, Irvine
Matthew Gudorf, University of California, Irvine

5 p.m. – 7 p.m.
Technology and Services Fair Open
Technology and Services Fair Evening Reception
Grand Sierra D/E

7 p.m. – 9 p.m.
I2SL Heart of America Chapter Event
Caribe Royale Lobby Bar

I2SL New England Chapter Event
Boca Patio

These events are for attendees who reside in the chapter’s region.

Tuesday, September 23

7:30 a.m. – 5 p.m.
Registration Open
Grand Sierra Registration South

Technology and Services Fair Open
Grand Sierra D/E

8 a.m. – 9 a.m.
Early Bird Sessions

8 a.m. – 9:00 a.m.
Continental Breakfast
Grand Sierra D/E

Roll Up Your Sleeves Roundtable: Laboratory Renovation Strategies – Sharing and Saving
Curacao 1
Peter Gardner, Torcon
Steven Kessler, Torcon
Morning Roundtable: Taking Action to Address the Lack of Connection Between University Lab Finances & Resources Consumed for Big Picture Impact on a National Level
Curacao 2
Kathy Ramirez-Aguilar, University of Colorado-Boulder

Morning Roundtable: Teaching Laboratories Case Studies
Curacao 3
Ken Collins, Lab-works Architecture

Bonaire 1
Gordon Sharp, Aircuity, Inc.

Morning Roundtable: Weathering the Perfect Storm: Resilient Lab Retrofit Projects
Bonaire 3
Alison Farmer, Andelman and Lelek Engineering, Inc.

9 a.m. – 9:30 a.m.
Morning Break
Grand Sierra D/E

9:30 a.m. – 11 a.m.

Session D1: Carbon and Cash: The Connections
Bonaire 1
Moderator: Otto Van Geet, NREL

Building Life Cycle Assessment with BIM
Dirk von Below, Flad Architects
Luke Laverty, Flad Architects

University of Colorado at Boulder Sustainability and Carbon Neutrality Approach
Shannon Horn, University of Colorado-Boulder

Panel Discussion

Session D2: Gotcha! Energy Recovery in Labs: Part 2
Bonaire 3
Moderator: Matt Meyer, JE Dunn Construction

Applying an Intelligent High Efficiency Energy Recovery System
Sean Convery, Cator, Ruma & Associates
Mark Labac, Edge Mechanical Systems, Inc.

Energy Recovery, Technologies, and Appropriate Applications
Joby Evans, Merrick & Company
Adolfo Salas, Energy Ace

College of Pharmacy – Converting 1960 Pharmacy Laboratory Optimizing Ultra-High Efficiency Heat Recovery Systems
Vytenis Milunas, University of Illinois Chicago
Scott Foster, Affiliated Engineers, Inc.

Session D3: Checking Under the Hood: A Look at Fume Hoods
Bonaire 5
Moderator: Chad House, Siemens Industry, Inc.

Butler University’s Renovation With Filtered Fume Hoods, Three Years Later
James Hill, BSA LifeStructures
Kenneth Crooks, Erlab

Field Tests of High Performance Laboratory Fume Hoods: A Systems View
Craig Wray, LBNL

Chemistry Labs, The New Math Changes Everything
Greg Muth, Wilson Architects
Betsy Blunt, University of Massachusetts, Amherst

Session D4: Changing the Conversation: Programs That Improve the Corporate Sustainability Culture: Part 1
Bonaire 7
Moderator: Punit Jain, Cannon Design
Establishing a Corporate Sustainability Program (Part I: Grass Roots to Formal Implementation)
Christina Leslie, Eurofins Lancaster Laboratories
Sam Huber, Eurofins Lancaster Laboratories

Publicizing Shared Instrumentation and Open Access Facilities
Amorette Getty, University of California, Santa Barbara

Fostering Sustainability in University of Michigan Labs Through Behavior Changes
Sudhakar Reddy, University of Michigan

11 a.m. – 1:30 p.m.
Lunch
Grand Sierra D/E

11:30 a.m. – 1:00 p.m.
Technology Demonstrations
Grand Sierra D/E

1:30 p.m. – 3 p.m.
Session E1: Computing Data Center Sustainability
Bonaire 1
Moderator: Don Holden, CRB

Data Center Partnership of the Better Buildings Challenge
Will Lintner, U.S. Department of Energy

Data Center Energy Use Assessment Kit - A Case Study
Rod Mahdavi, LBNL

The Revolutionary Data Center Retrofit
Dave Gallaher, National Snow and Ice Data Center
Otto Van Geet, NREL

Session E2: Exhaust: It’s Not Just Hot Air
Bonaire 3
Moderator: David Tash, AECOM

Your Toolkit for Good Lab Exhaust Design
Mark Hallman, Rowan Williams Davies & Irwin Inc.

An Energy Success Story – Running VAV Laboratory Exhaust Stacks Without By-Pass
Jeff Reifsneider, CPP, Inc.
Sean Convery, Cator, Ruma & Associates

Efficient and Safe Laboratory Exhaust System Selection
Andy Bosscher, Twin City Fans & Blowers
Paul Tetley, Twin City Fans & Blowers

Session E3: The Many Facets of Lab Sustainability
Bonaire 5
Moderator: Susan Turner, Bailey Edward

Laboratory Fume Hoods with Active Auxiliary Air Supply; Different Active Principles Make the Difference
Juergen Liebsch, Forschung und Entwicklung

A Roadmap to the Ultra-Efficient Laboratory: Science Applications, Benchmarks, and Pitfalls to Avoid
James Blount, Ellenzweig
Kenneth Crooks, Erlab

Laboratory Fume Hoods and Alternative Laboratory Ventilation Devices
Robert DeLuca, Lab Crafters, Inc.

Session E4: Changing the Conversation: Programs That Improve the Corporate Sustainability Culture: Part 2
Bonaire 7
Moderator: Greg Muth, Wilson Architects Inc.

Establishing a Corporate Sustainability Program (Part II: Data Collection, Goal Establishment and Future Plans)
Sam Huber, Eurofins Lancaster Laboratories
Christina Leslie, Eurofins Lancaster Laboratories
Laboratory Sustainability: Voluntary Green Lab Programs Make an Institutional Impact
Kelly O’Day Weisinger, Emory University

Developing a Green Labs Program at Cornell University
Ellen Sweet, Cornell University

Session F1: This Old Lab: Laboratory Renovations
Bonaire 1
Moderator: Nicholas Caronna, CRB

PSU’s SRTC Remodel – They Said It Wasn’t Possible
Mark Fujii, Penn State University
Scott Barton-Smith, IDC Architects

LBNL’s Building 74 Modernization – A Case Study in Strategies and Lessons Learned
Stan Lew, RMW architecture & interiors
Richard Stanton, LBNL

Refurbishing: Ultimate Recycling or Fatal Compromise?
Joshua Gassman, Lord Aeck Sargent

Session F2: Exhausting Considerations
Bonaire 3
Moderator: Craig Wray, LBNL

Going the Extra Mile to Reduce Laboratory Exhaust Energy Requirements at the Cal Tech Broad Center
Brad Cochran, CPP, Inc.
Glenn Friedman, Taylor Engineering, LLC

Designing Radioactive Laboratory Exhausts: How Do I Know It’s Safe?
John Alberico, Rowan Williams Davies and Irwin, Inc.

Session F3: Lake Nona Medical City: A Sneak Peek of the Evening Tour
Bonaire 5
Moderator: Joe Finnigan, Sanford-Burnham Medical Research Institute

University of Florida, Research and Academic Center at Lake Nona: Aligning Research Priorities, Academic Programs, Financial Plans, and Sustainability Goals
Stuart Lewis, HOK
Joseph Limpert, Affiliated Engineers, Inc.

Multidisciplinary Research Building Adapts Energy Conservation and Flexibility to Meet Specific User Needs
Joseph Limpert, Affiliated Engineers, Inc.
Tyler Dykes, Affiliated Engineers, Inc.

The University of Central Florida Burnett School of Biomedical Sciences Building
Tony Harding, The Whiting-Turner Contracting Company
Dennis Renders, The Whiting-Turner Contracting Company

Session F4: What Users Can Do for Laboratory Sustainability
Bonaire 7
Moderator: Tom Carroll, nora systems, Inc.

Washing Principles and Common Mistakes
Olivier Van Houtte, STERIS

Interdisciplinary Collaboration and Science Flexibility Features: How Are They Actually Being Used?
Sara Howell, ZGF Architects LLP
Shut Your Hood! Monitoring Fume Hood Sashes and Providing Feedback on Behavior to Benefit Energy Conservation
Ashlyn Norberg, University of Colorado-Boulder

5 p.m. – 6:30 p.m.
I2SL University Alliance Working Group Meeting
Bonaire 1

Wednesday, September 24

7:30 a.m. – 1:30 p.m.
Registration Open
Grand Sierra Registration South

Technology and Services Fair Open
Grand Sierra D/E

7:30 a.m. – 9:00 a.m.
Continental Breakfast
Grand Sierra D/E

8 a.m. – 9 a.m.
Early Bird Sessions

Morning Roundtable: Laboratory Energy Conservation: An "Overseas" Perspective on Motivations, Method, and Key Factors
Curacao 1
Steffen Springer, Waldner Laboreinrichtungen GmbH & Co. KG

Morning Roundtable: Making Sustainability a Priority in Your Organization
Curacao 2
Alicia Pandimos Maurer, CRB
Jim Nicolow, Lord Aeck Sargent

Morning Roundtable: Portable and Modular Stand-Alone Bio-Containment Laboratories
Curacao 3
Keith Landy, Germfree Laboratories, Inc.

5 p.m. – 10 p.m.
Evening Tour at Lake Nona Medical City
Sanford-Burnham Medical Research Institute and the University of Florida Research and Academic Center

Buses will load at the main entrance of the convention center.

Conference Day 3

Morning Roundtable: Challenges and Opportunities for Lab Developers
Curacao 4
Timothy Stoll, BioMed Realty Trust, Inc.

9 a.m. – 10:30 a.m.

Session G1: Dial 0 for the Operator: The Role of O&M in Lab Sustainability
Bonaire 1
Moderator: Erik Lustgarten, Steffian Bradley Architects

Please Pass the Data: Leveraging Mobile Technologies to Transfer BIG Info
Rawle Sawh, Gilbane Building Company
Hugh Anderson, Johnson Controls, Inc.

BIM Offers University Tools and Capabilities That Support Their O&M and Facilities Management
Lina Stinnett, JE Dunn Construction
Matt Meyer, JE Dunn Construction

Laboratory Operations and Maintenance: Responsibilities and Challenges
David Hader, Max Planck Florida Institute
Corey Pine, Max Planck Florida Institute

Session G2: Flexible Designs for Changing Missions: Part 1
Bonaire 3
Moderator: Punit Jain, Cannon Design
How to Happily Marry Energy-Efficient Design, Space Flexibility and Budget
Don Holden, CRB Engineers

The Next Generation Laboratory: National University of Ireland at Galway
Christopher Baylow, Payette
Jeffrey Zynda, Payette

Flexible Casework and Utility Design for Fully Reconfigurable Laboratories
Kevin Chriswell, CRB
Gopi Patel, PSquared Consulting Engineers

Session G3: Containment and Design in Hazardous Laboratories: Part 1
Bonaire 5
Moderator: Tom Carroll, nora systems, Inc.

State of the Art High Containment: Why Your Facility Might Fall Short and How to Get Back on Track
Joseph D’Alu, RMF Engineering
David Puckett, FPW Architects

Hazardous Laboratory Ventilation: Sustainable Design Approaches to Match Process Hazards
Jonathan Eisenberg, Arup
Keith Prata, Arup

Sustainability and Energy Efficiency for High-Containment Government Labs
Michael Walsh, R.G. Vanderweil Engineers, LLP
Timothy O’Connell, HOK

Session G4: Get Involved! Engaging the Laboratory User
Bonaire 7
Moderator: Sudhakar Reddy, University of Michigan

Implementation of Green Chemistry and Sustainable Lab Practices in the University of Colorado-Boulder Chemistry Department
Lily Robertson, University of Colorado-Boulder

Sustainable Lab of the Future: Improving Results Through Flexible and Humanistic Solutions
Chris Ertl, CRB, Inc.
Mark Paskanik, CRB, Inc.

Walking the Walk: Engaging Environmental Health Labs to Establish a Model for Sustainability
Jennifer Krenz, University of Washington

10:30 a.m. – 11 a.m.
Morning Break
Grand Sierra D/E

11 a.m. – 12:30 p.m.

Session H1: Solutions for Changing Climates
Bonaire 1
Moderator: Larry Clark, Sustainable Performance Solutions, LLC

Doing More With Less: Hydronic Synergy Strategies for Chilled Beams
George Karidis, SmithGroupJJR
Cindy Cogil, SmithGroupJJR

Energy Optimization (& Reuse) Through Systems Integration
Robert Thompson, SmithGroupJJR
Otto Van Geet, NREL

Significance of Operational and Climatic Parameters in Laboratory HVAC System Selection
Shreshth Nagpal, Atelier Ten

Session H2: Flexible Designs for Changing Missions: Part 2
Bonaire 3
Moderator: Don Holden, CRB

Balancing Energy Conservation and Safety in a New Academic Clean Room
Pam Greenley, Massachusetts Institute of Technology, Environmental Health and Safety
The Sustainability, Energy & Environment Complex at CU – A Flexi-Laboratory Case Study
Matt Meyer, JE Dunn Construction
Mike Early, JE Dunn Construction

Panel Discussion

Session H3: Containment and Design in Hazardous Laboratories: Part 2
Bonaire 5
Moderator: Franco Attasi, Siemens Industry, Inc.

NREL Energy Systems Integration Facility, Golden, Colorado – A Case Study Focused on the High Bay Labs
David Sereno, Affiliated Engineers, Inc.
Kevin Krause, Affiliated Engineers, Inc.

Cleanrooms and High Performance Labs – Understanding the Dispersion and Potential Impact of Chemical Emissions to Explore Energy Savings
Aimee Smith, Rowan Williams Davies and Irwin, Inc.

LEED Gold BSL-3 Forensic Pathology/Autopsy Laboratory
Gurdaver Singh, Guttmann & Blaevoet
Russell McElroy, McClaren Wilson & Lawrie

Session H4: Green Laboratory Continuous Improvement Guide: Stages and Stakeholders
Bonaire 7
Moderator: Mike Austin, University of Minnesota

Campus-Wide Engagement for Conservation in Labs
Kathy Ramirez-Aguilar, University of Colorado-Boulder

Hoods – HVAC
Jim Coogen, Siemens Building Technologies

Ultra Low Freezers
Allen Doyle, University of California

Laboratory Ventilation Management Plan
Ellen Sweet, Cornell University

Water and Waste
Amorette Getty, University of California, Santa Barbara

12:30 p.m. – 1:30 p.m.
Closing Reception
Grand Sierra D/E

Working Group Meetings
2 p.m. – 4 p.m.

I2SL Laboratory Continuous Performance Improvement Program (LCPIP) Working Group Meeting
Bonaire 1

I2SL's Plan to Enhance the Labs21 Benchmarking Tool
Bonaire 3

Training Needs for Laboratory Operations, Maintenance, and Management Personnel
Bonaire 5

4 p.m. – 5 p.m.

Discussion About Needs and Opportunities for a State-Wide Lab Efficiency Initiative for Florida
Bonaire 1
Map of Meeting Space

- Technical Sessions
- Pre-Conference Training Sessions, Early Bird Sessions
- Technical Sessions, Working Groups
- Registration
- Opening Plenary
- Technology and Services Fair