

# ASHRAE Distinguished Lecturers

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Thursday, May 31, 2018

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
<b>Devin A. Abellon, P.E.</b> Uponor 25404 North 52nd Avenue Phoenix, AZ 85083-4444 Tel: (760) 902-4879 Email: <a href="mailto:devin.abellon@uponor.com">devin.abellon@uponor.com</a>	1 Hydronic Piping with PEX: Pros and Pitfalls	Intermediate		
	2 Specifying Radiant Heating and Cooling Systems	Intermediate		
	3 The (un)Ethical Engineer: a study in principle and practice	Basic		
	4 Using Embedded Tube Radiant Cooling Systems to Maximize LEED Points	Basic/Interm		ABELLON01
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English			
<b>Roberto R. Aguilo, P.E.</b> Estudio Aguilo & Asociados Tres Arroyos 2421 Buenos Aires, 1416 ARGENTINA Tel: (54911) 4148-2111 Email: <a href="mailto:raguilo@yahoo.com">raguilo@yahoo.com</a>	1 Cooling Loads Calculation	Intermediate		
	2 Refrigerant Flow Controls Methods in Industrial Refrigeration	Intermediate		
	3 Refrigerants - Application and Impact in the Atmosphere	Intermediate		
	4 Supermarkets Refrigeration System & Sustainability	Intermediate		
	5 The Refrigeration Processes in the Food Industry	Intermediate		
	6 The Use of CO2 as Refrigerant	Intermediate		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English Spanish			
<b>William P. Bahnfleth, Ph.D., P.E.</b> Pennsylvania State University 1426 South Pugh Street University Park, PA 16802 Tel: (814) 863-2076 Email: <a href="mailto:wbahnfleth@psu.edu">wbahnfleth@psu.edu</a>	1 Fundamentals of Ultraviolet Germicidal Irradiation for Air & Surface Disinfection	Basic/Interm	0920014267	BAHNFLETH04
	2 HVAC and Airborne Infectious Diseases	Basic/Interm	0920005385	Bahnfleth06
	3 HVAC and Risk from Airborne Hazards	Basic/Interm	0920005384	Bahnfleth07
	4 Integrating Indoor Air Quality and Energy Efficiency in Buildings	Intermediate	0920014269	BAHNFLETH02
	5 Thermal Energy Storage in the Era of Sustainability	Interm/Adv	0920014272	BAHNFLETH03
	6 Variable Primary Flow Chilled Water Systems	Interm/Adv	0920014275	BAHNFLETH05
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English			

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
<b>Erich Binder</b> EBCL 159 Douglasbank Drive SE CalgaryAB T2Z1X7 Canada Tel: 403-836-0832 Email: <a href="mailto:ebcl@shaw.ca">ebcl@shaw.ca</a>	1 ASHRAE - How You Can Get involved	Basic		
	2 Cold Climate Building Design	Basic		
	3 Industrial Ventilation & Loss Prevention Engineering	Basic		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English			
<b>Hoy R. Bohanon, Jr., P.E.</b> Hoy Bohanon Engineering PLLC 8236 Arbor Ridge Lane Clemmons, NC 27012 Tel: (336) 972-1626 Email: <a href="mailto:bohanoneng@gmail.com">bohanoneng@gmail.com</a>	1 Applying ASHRAE Standards to Existing Buildings	Basic		
	2 ASHRAE Building Energy Quotient (bEQ)	Basic	0920010381	BOHANON05
	3 Commissioning, Operating and Maintaining Air-to-Air Energy Recovery Systems	Advanced	0920010385	BOHANON01
	4 How to Implement Demand Control Ventilation & Comply with ASHRAE Standards	Intermediate	0920010384	BOHANON02
	5 Perception and Acceptance of Commissioning	Basic		
	6 Retro-Commissioning for Energy Savings	Basic	0920010383	BOHANON03
	7 Update on ASHRAE Standard 62.1	Basic		
	8 Using ASHRAE Standard 62.1-2016 Multiple Space Equations	Intermediate	0920010382	BOHANON06
	9 What Do You Need to Know About the ASHRAE IAQ Guide?	Basic		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English			
<b>Thiam Leong Chen, P.E., CEng.</b> Primetech Engineers, Sdn Bhd 19B & 21B, Jalan 17/45 Petaling Jaya Selangor, 46400 MALAYSIA Tel: (601) 22159813 Email: <a href="mailto:tichen55@gmail.com">tichen55@gmail.com</a>	1 A Selection of Common HVAC Design Problems for Hot & Humid Climate Application	Interm/Adv		
	2 Beyond Refrigerants: What's in store after HFOs & Naturals?	Intermediate		
	3 Chilled Slab Cooling in Hot & Humid Climate Application	Interm/Adv		
	4 Disconnect between DCS Provider & End User: Need for an Equitable & Sustainable Solution	Advanced		
	5 DO's & DON'Ts in Efficient HVAC Design, Installation, Commissioning, Operation & Maintenance	Basic/Interm		
	6 The Green Building Index (GBI) - A Green Building Rating Tool for the Tropics	Basic/Interm		
	7 Tropicalisation of High Performance Strategies for Hot & Humid Climate Applications	Interm/Adv		
	8 UFAD and LLD (TDV) in Hot & Humid Climate Application	Interm/Adv		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English			

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
<b>James J. Coogan, P.E.</b> Siemens Building Technology 1000 Deerfield Parkway Buffalo Grove, IL 60089 Tel: 847 899 4660 Email: <a href="mailto:jim.coogan@siemens.com">jim.coogan@siemens.com</a>	1	Air Flow Controls at the Terminal Level		
	2	ASHRAE Guideline 36P: High Performance Sequences of Operation		
	3	Feedback Systems in HVAC		
	4	Lighting and HVAC Control, Integrated at the Room Level		
	5	Methodical Approach to Sustainability in Labs		
	6	Space Pressurization: Concept and Practice		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English		0920014276	COOGAN02
<b>Drury Crawley, Ph.D.</b> Bentley Systems, Inc. 4539 Albemarle Street Washington, DC 20016 Tel: (202) 422-6464 Email: <a href="mailto:dbcrawley@gmail.com">dbcrawley@gmail.com</a>	1	Big, Smart, and Everything: Data, Technology, Buildings, Cities, and the Iota		
	2	BIM to SIM (or How Do I Get That Rich Data into My Simulations Without Reentering?)		
	3	Building Performance Simulation: What's in the Black Box		
	4	EnergyPlus, DOE's New Generation Building Energy Simulation Program		
	5	Getting From AEDGs to Zero-Energy Buildings		
	6	Impacts of Climate Change & Urbanization on Future Building Performance		
	7	Standard 189.1 - Structure, Requirements & Energy Savings		
	8	Trends: Buildings, Technologies and Tools		
<b>HONORARIUM</b> \$250 donation to ASHRAE Research	<b>LANGUAGES</b> English		0920010364	CRAWLEY03
			0920010371	CRAWLEY07
			0920010365	CRAWLEY04
			0920010370	CRAWLEY06
			0920010369	CRAWLEY05
			0920010400	CRAWLEY01
			LEED BD+C	
			0920010363	CRAWLEY02
<b>Chandana N. Dalugoda</b> Chandana Dalugoda Consultants 12/9, Maharagama Road Makuluduwa Piliyandala 10300 SRI LANKA Tel: 94777785778 Email: <a href="mailto:chandana_cnd@sltnet.lk">chandana_cnd@sltnet.lk</a>	1	Air Conditioning Systems for Tropical Humid Climates		
	2	Applied Psychometrics for Air Conditioning Systems		
	3	Cooling Load Calculations ASHRAE CLTD/SCL/CLF Method		
	4	Reducing Carbon Footprint of Buildings in Developing Economies		
	5	Sustainable HVAC Designs for Green Buildings		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English		0920010351	DALUGODA02
			0920010353	DALUGODA04
			0920010352	DALUGODA03

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
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**Julian R. de Bullet**  
 de Bullet Consulting  
 5993 Piney Grove Way  
 Gainesville, VA 20155  
 Tel: (703) 483-0179  
 Email: [julian@debullet.com](mailto:julian@debullet.com)

**HONORARIUM**      **LANGUAGES**  
 None                      English

1	Centrifugal Chiller Fundamentals	Basic		
2	Chiller Plant Design Fundamentals	Basic		
3	Condenser Water Heat Recovery	Advanced		
4	Constant Flow Chiller Plant Design	Intermediate		
5	Energy Analysis, Option or Necessity?	Basic		
6	Green "Sustainable" HVAC Design	Intermediate	0920010523	DEBULLET01
7	Optimal Air - A Cool Solution	Intermediate		
8	Responsible Use of Refrigerants	Advanced		
9	Variable Flow Chiller Plant Design	Advanced		

**Pamela Duffy, P.E.**  
 Lennox International  
 15800 Spectrum Dr  
 Apt 1119  
 Addison, TX 75001  
 Tel: (404) 434-8793  
 Email: [pamela.duffy@lennoxind.com](mailto:pamela.duffy@lennoxind.com)

**HONORARIUM**      **LANGUAGES**  
                                     English

1	Boost Your Salary with Professional Development Skills	Basic		
2	Building Inclusivity	Basic		
3	Energy Recovery...for People! Managing stress at work	Basic		
4	Foundations for Success in HVAC	Basic		
5	How Standards are Made, and other ASHRAE "Secrets"	Basic		
6	Networking 101: Turning Awkward into Opportunity	Basic		
7	People Management: How to be the World's Best Boss!	Basic		
8	Take it from a Millennial: Generation Differences in the Workforce	Basic		
9	The State of Women in Engineering	Basic		
10	Time Management for the Perpetually Busy Engineer	Basic		
11	Variable Refrigerant Flow: Systems Overview	Basic		
12	VRF and DOAS: Design Considerations`	Basic		
13	VRF Applied: Lessons Learned	Intermediate		

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
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**James C. Edmondson**

James M. Pleasants Co. Inc.  
P.O. Box 16992  
Greensboro, NC 27416  
Tel: (336) 580-3399  
Email: [chrise@jmpco.com](mailto:chrise@jmpco.com)

**HONORARIUM**

None

**LANGUAGES**

English

1	7-Key Impacts of ASHRAE Standards on Waterside Construction and Design	Basic/Interm/Adv		
2	A Review of Primary Secondary Systems	Basic/Interm/Adv		
3	An Introduction to Ice Storage Systems	Basic/Interm/Adv		
4	Cooling Tower & Condenser Piping	Basic/Interm/Adv	090008322	
5	Is It Raining in Your Boiler?	Basic/Interm/Adv		
6	Manual Versus Automatic Balance of Hydronic Systems	Basic/Interm/Adv	090006858	
7	The Primary Secondary Versus Variable Primary Debate	Basic/Interm/Adv		

**Victor W. Goldschmidt, Ph.D.**

Dynamic Creativity Applications  
P.O. Box 423  
Northport, MI 49670  
Tel: (231) 386-9058  
Email: [creating2@earthlink.net](mailto:creating2@earthlink.net)

**HONORARIUM**

None

**LANGUAGES**

English  
Spanish

1	Active Listening & Styles of Communication	Basic		
2	Air Conditioning: A Look Into the Past & a Guess into the Future	Basic		
3	Blessings and Curses of Computer Modeling	Basic		
4	Differing Perspectives into Global Warming	Basic		
5	Distinction between Leadership and Management and their Application	Basic		
6	Principles of Leadership & Change	Basic		
7	Principles of Leadership & Group Dynamics	Basic		
8	Problem Solving and Creativity	Basic		
9	Problem Solving in Engineering	Basic		
10	Releasing Individuals' Own Creativity	Basic		
11	Sustainability and Implications in the Context of Power Plants	Basic		
12	Thinking Like an Engineer and Societal Challenges	Basic		
13	Training Session - Leadership Principles	Basic		
14	Training Session - Problem Solving: Principles & Practices	Basic		
15	Training Session - Strategic Planning	Basic		

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
<b>Patricia T. Graef, P.E., Fellow ASHRAE</b> Munters Corporation 17710 Nalle Road N. Ft. Myers, FL 33917 Tel: (239) 218-8030 Email: <a href="mailto:pat.graef@att.net">pat.graef@att.net</a>	1 Data Center Cooling Technologies	Basic/Interm		
	2 The Logic of Dedicated Outside Air Systems and The Core Technologies That Make Them Effective	Basic/Interm		
	3 The New Legionella Standard: ANSI/ASHRAE 188-2015 'Legionellosis: Risk Management for Building Water Systems'	Basic/Interm		
<b>HONORARIUM</b>	<b>LANGUAGES</b>			
	English			
<b>Eckhard A. Groll, Dr. Eng.</b> Purdue University, Ray W. Herrick Labs 177 S. Russel Street West Lafayette, IN 47907 Tel: (765) 496-2201 Email: <a href="mailto:groll@purdue.edu">groll@purdue.edu</a>	1 Recent Research of Novel Compression Concepts for Heat Pumping, A/C & Refrigeration Applications	Advanced		
	2 Update on Refrigerants: Past, Present and Future	Basic	0920010372	GROLL01
<b>HONORARIUM</b>	<b>LANGUAGES</b>			
None	English			
<b>Walter T. Grondzik</b> Ball State University 221 N. Alden Rd Muncie, IN 47304 Tel: (850) 322-8343 Email: <a href="mailto:gzik@gzik.org">gzik@gzik.org</a>	1 Building Commissioning	Basic		
	2 Comfort	Basic		
	3 Sustainability	Basic		
<b>HONORARIUM</b>	<b>LANGUAGES</b>			
	English			
<b>Charles E. Gulledge, III, P.E.</b> AC Corporation 301 Creek Ridge Road Greensboro, NC 27406 Tel: (336) 271-6323 Email: <a href="mailto:cgulledge@accorporation.com">cgulledge@accorporation.com</a>	1 Design-Build-Operate-Maintain: What Could Possibly Go Wrong?	Basic/Interm		
	2 Green Industrial HVAC Design	Basic/Interm		
	3 Integrated Building Design	Basic/Interm	0920010354	GULLEDGE01
	4 Integrated Project Delivery	Basic/Interm		
<b>HONORARIUM</b>	<b>LANGUAGES</b>			
None	English			

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
<b>Sheila J. Hayter, P.E.</b> NREL 1425 Normandy Rd Golden, CO 80401 Tel: (303) 384-7519 Email: <a href="mailto:sheila.hayter@nrel.gov">sheila.hayter@nrel.gov</a>	1 Integrating Renewable Energy Systems into Buildings	Basic/Interm		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English			
<b>Jorge E. Hernandez, P.E.</b> Regional Managers & Associates 12609 Oulton Circle Orlando, FL 32832 Tel: (305) 505-2906 Email: <a href="mailto:angelica@regionalmanagers.com">angelica@regionalmanagers.com</a>	1 Basic Air Conditioning Concepts for beginning Engineers and Architects 2 Basic Concepts Of Evaporative Cooling 3 Basic Psychrometrics for Industrial Refrigeration Professionals 4 Critical Applications 5 Displacement Ventilation 6 Latest Developments in the HVAC world 7 Psychrometrics of Displacement Ventilation	Basic Interm/Adv Basic Basic/Interm/Adv Basic/Interm/Adv Basic/Interm/Adv Advanced		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English Spanish Portuguese			
<b>Daniel Int-Hout, III</b> Krueger 1401 North Plano Road Richardson, TX 75081 Tel: (972) 497-0418 Email: <a href="mailto:daninhout@aol.com">daninhout@aol.com</a>	1 Connections 2 Methods of Effective Room Air Distribution 3 Selecting VAV Products for Acceptable Environments 4 The Basics of Air Distribution 5 You Can't Afford Discomfort	Basic Intermediate Intermediate Basic/Interm Intermediate		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English			

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
<b>Rupesh Iyengar, Ph.D.</b> Services Consultants 1306, 29th B Cross 13th Main, 4th Block (East) JayanagarBengaluru 560011 India Tel: +91 9742342880 Email: <a href="mailto:rupesh_iyengar@yahoo.com">rupesh_iyengar@yahoo.com</a>	1 The Unstructured and Unsustainable Growth Phenomena of Cities in Developing Countries	Basic		
	2 Decentralised Cooling and Ventilation	Basic/Interm		
	3 Net Positive Energy Design	Basic		
	4 The Art of Cooling and Ventilating spaces using the Buoyancy Effect	Basic/Interm		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English Hindi			
<b>Hank Jackson, P.E.</b> Sales O'Brien 30 Morning Glory Lane Weaverville, NC 28787 Tel: (828) 691-0785 Email: <a href="mailto:hzjackson@juno.com">hzjackson@juno.com</a>	1 Beam Me Up Scottie! Transport Energy: Motors, Fans, & Pumps	Interm/Adv		
	2 Commissioning Critical Environment Facilities – Lessons Learned	Basic		
	3 Green Buildings: Help or Hype?	Basic		
	4 Introduction to Geothermal Heat Pump Systems	Basic		
	5 Just Do It! How to Get Started With an Energy Efficiency Survey	Basic/Interm		
	6 Overcoming Objections to Energy Efficiency Investments	Basic/Interm		
	7 Transformers: Turning Existing Buildings Green	Basic		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English			
<b>Ronald E. Jarnagin</b> 355 Falconridge Street Richland, WA 99352 Tel: (509) 430-4113 Email: <a href="mailto:ron.jarnagin@pnl.gov">ron.jarnagin@pnl.gov</a>	1 Advanced Energy Design Guides – Going Beyond Minimum Standards	Basic		
	2 ASHRAE Headquarters Renovation – What Happens When Leaders try to do it Right	Basic		
	3 ASHRAE's Building Energy Labeling Program, the Building Energy Quotient (bEQ)	Basic		
	4 Standard 90.1 – Past, Present and Future	Basic		
	5 Sustaining ASHRAE Through Leadership	Basic		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English			



NAME	TOPICS	TOPIC CLASS	GBCI	AIA
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**Julia A. Keen, P.E., Ph.D.**

Kansas State University  
 2062 Seaton Hall  
 920 N 17th St  
 Department of Architectural Engineering  
 Manhattan, KS 66506  
 Tel: (319) 230-8522  
 Email: [jkeen@ksu.edu](mailto:jkeen@ksu.edu)

- 1 ASHRAE bEQ – Building Performance vs Building Certification & Rating
- 2 Ethical Decision Making – An Exercise in Application
- 3 Millenials – How to Manage the next Generation
- 4 Targeting Success – Improve Employee Satisfaction, Retention, and Profit
- 5 Tools for Success (that do not Require a Calculator)

Basic  
 Basic  
 Basic  
 Basic  
 Basic

0920010408 KEEN01

**HONORARIUM**

**LANGUAGES**

None

English

**Kishor Khankari, Ph.D.**

AnSight LLC  
 3814 Mill Pond Lane  
 Ann Arbor, MI 48108  
 Tel: (734) 327-4079  
 Email: [kishork@ansight.com](mailto:kishork@ansight.com)

- 1 Airflow Management Best Practices for Data Centers
- 2 Airflow Management for Healthcare Facilities
- 3 Airflow Management for Laboratory Facilities
- 4 Applications of Computational Fluid Dynamics (CFD) for Built Environment
- 5 Design and Analysis of Natural Ventilation Systems
- 6 Stratified Air Ventilation Systems

Basic/Interm/Adv  
 Basic/Interm/Adv  
 Intermediate  
 Basic/Interm/Adv  
 Basic/Interm/Adv  
 Basic/Interm/Adv

0920014296 KHANKARI04  
 0920010407 KHANKARI05  
 0920014291 KHANKARI06  
 0920014282 KHANKARI01  
 0920014283 KHANKARI02  
 0920014292 KHANKARI03

**HONORARIUM**

**LANGUAGES**

None

English  
 Hindi  
 Marathi

**Ralph Kittler, P.E.**

Seresco, Inc.  
 2107 N. Decatur Road  
 Decatur, GA 30033  
 Tel: (770) 457-3392 ext. 150  
 Email: [rakittler@serescodehumidifiers.com](mailto:rakittler@serescodehumidifiers.com)

- 1 Natatorium Design and Dehumidification

Basic/Interm

**HONORARIUM**

**LANGUAGES**

None

English

NAME		TOPICS	TOPIC CLASS	GBCI	AIA
<b>M. Dennis Knight, P.E.</b>		1 ASHRAE Building Energy Quotient (bEQ)	Basic		
Whole Building Systems, LLC		2 ASHRAE Standard 62.1 – the IAQ Procedure and LEED	Basic/Interm		
P.O. Box 1845		3 Building Information Modeling for the Mechanical Disciplines	Basic		
Mt. Pleasant SC 29464		4 Building Performance Analysis for Building Performance Rating Systems	Intermediate	0920004628	KNIGHT03
Tel: (843) 437-3647		5 Conducting A Commissioning Kick-Off Meeting	Intermediate		
Email: <a href="mailto:dknight@wholebuildingsystems.com">dknight@wholebuildingsystems.com</a>		6 Developing an Integrated Personal Management System to help Get Things Done	Basic	0920004588	KNIGHT02
<b>HONORARIUM</b>	<b>LANGUAGES</b>	7 Health and Wellness In The Built Environment – An Introduction	Basic		
None	English	8 Integrated Building Design and Building Information Modeling	Intermediate	0920004589	KNIGHT01
<hr/>					
<b>Thomas M. Lawrence, Ph.D., P.E.</b>		1 ASHRAE Standard 189.1 and the International Green Construction Code	Intermediate		
University of Georgia		2 CO2 Monitoring for Outdoor Airflow and Demand-Controlled Ventilation	Intermediate	0920010415	LAWRENCE01
Driftmier Engineering Center		3 High Performance Building Design – What the Future holds for the Direction for our Industry	Intermediate	0920005392	Lawrence03
Annex Room 106		4 International Energy Efficiency Standards and Guidelines	Basic		
Athens, GA 30602		5 Resiliency in Building Design to Support a Resilient Society	Intermediate		
Tel: (706) 542-4322		6 The Coming Age of a Smart Grid and Smart Buildings	Intermediate	0920014297	LAWRENCE01
Email: <a href="mailto:lawrence@engr.uga.edu">lawrence@engr.uga.edu</a>		7 The 'Green Awakening': The Coming Carbon Economy & Determining Your Building's CO2 Footprint	Basic	0920010413	LAWRENCE04
<b>HONORARIUM</b>	<b>LANGUAGES</b>	8 Thermal Comfort as Related to Energy Consumption: What is the Balance?	Basic	0920014298	LAWRENCE05
None	English	9 What ASHRAE is Doing to Become a Global Society	Basic		
<hr/>					
<b>Karine Leblanc</b>		1 How to use Emotional Intelligence to become a better person professionally and personally	Basic		
US Air Conditionings Distributors					
16900 Chestnut St					
City of Industry,CA 91748					
Tel: (310) 420-7066					
Email: <a href="mailto:karine@leblancusa.com">karine@leblancusa.com</a>					
<b>HONORARIUM</b>	<b>LANGUAGES</b>				
None	English				
	French				

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
<b>Luke C.H. Leung, P.E.</b> Skidmore, Owings, & Merrill 224 S. Michigan Avenue 10th Floor Chicago,IL 60604 Tel: (312) 360-4121 Email: <a href="mailto:luke.leung@som.com">luke.leung@som.com</a>	1 21st Century Tall Building Design	Interm/Adv	0920014332	LEUNG01
	2 Burj Khalifa: Engineering the World's Tallest Building	Interm/Adv		
	3 Live Long, Healthy and Low Energy	Basic/Interm/Adv		LEUNG02
	4 Net-Zero Building vs. Net-Zero District	Interm/Adv		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English Chinese			
<b>Marlene L. Linders</b> Philders Group International 801 International Parkway 5th Floor Heathrow,FL 32746 Tel: (407) 562-1625 Email: <a href="mailto:mlinders@phildersgroup.net">mlinders@phildersgroup.net</a>	1 De-Mystifying Healthcare: Three Critical Keys in doing Business with the American Healthcare System	Intermediate		
	2 Overview of Risk Management for Infection Control During Health Care Construction	Intermediate	0920010409	LINDERS01
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English			
<b>Andrey Livchak, Ph.D.</b> Halton Group Americas 103 Industrial Drive Scottsville,KY 42164 Tel: (270) 237-5600 Email: <a href="mailto:andrey.livchak@halton.com">andrey.livchak@halton.com</a>	1 Active and Passive Beams	Intermediate	0920005386	Livchak02
	2 Demand Controlled Ventilation for Commercial Kitchen Applications	Intermediate		
	3 Energy Efficient Solutions for Commercial Kitchen Ventilation	Intermediate	0920014335	LIVCHAK01
	4 Fundamentals of Thermal Displacement Ventilation	Intermediate	0920005387	LIVCHAK03
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English			
<b>Mark M. MacCracken, P.E.</b> CALMAC Mfg. Corp. 3-00 Banta Place Fair Lawn, NJ 07410 Tel: (201) 906-8020 Email: <a href="mailto:mm@calmac.com">mm@calmac.com</a>	1 Energy Storage: A Vital Element in a Lower Carbon Future	Intermediate	0920005395	MacCracken01
	2 TES Myths	Intermediate		
	3 Thermal Energy Storage and LEED	Intermediate		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English			

NAME		TOPICS	TOPIC CLASS	GBCI	AIA
<b>R. Christopher Mathis</b>		1 ASHRAE Is In The House: Past, Present and Future Initiatives in Residential Building Performance	Basic		
MC2 Mathis Consulting Company		2 Bringing ASHRAE 90.1 to the World: The Addition of Climate Zone 0	Basic		
P.O. Box 18055		3 Building Science Lessons from the Honey Bee	Basic		
Asheville, NC 28814		4 Energy Efficiency in Commercial Buildings	Basic		
Tel: (828) 678-3500		5 Energy Efficiency in Residential Buildings	Basic		
Email: <a href="mailto:chris@mathisconsulting.com">chris@mathisconsulting.com</a>		6 Energy Efficient Window and Fenestration Technologies	Intermediate		
<b>HONORARIUM</b>	<b>LANGUAGES</b>	7 How Long Will it Last? Addressing the Challenge of Sustainability	Basic		
\$250 Donation	English	8 Primary Energy in Commercial Buildings	Basic		
to ASHRAE		9 Why Buildings Matter and the Role of ASHRAE 90.1	Basic	0920005398	Mathis01
Research					
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<b>Christopher M. McDonald, Esquire</b>		1 Document Management & Discovery – How Documents & E-mails are Used in Litigation	Intermediate		
Shook, Hardy and Bacon, LLP		2 IAQ & Mold: Legal Issues and Liability Concerns for Engineers & Related Industry Professionals	Intermediate		
2555 Grand Blvd.					
Kansas City, MO 64108					
Tel: (816) 474-6550					
Email: <a href="mailto:cmcdonald@shb.com">cmcdonald@shb.com</a>					
<b>HONORARIUM</b>	<b>LANGUAGES</b>				
None	English				
<hr/>					
<b>Frank Mills</b>		1 ASHRAE Cold Climate Design Guide	Basic		
7 Fylde Ave		2 Design of Atrium Buildings	Intermediate		
Leyland, Lancashire PR26 6RP		3 Energy Savings in Pubs, Restaurants, and Hotels	Intermediate		
UK		4 Hot Climate Design Guide	Basic		
Tel: +44 1772 424124		5 Natural Ventilation	Basic		
Email: <a href="mailto:famills@low-carbondesign.com">famills@low-carbondesign.com</a>		6 Net Zero Energy Buildings	Intermediate		
<b>HONORARIUM</b>	<b>LANGUAGES</b>	7 Net Zero Hospitals	Intermediate		
	English				

NAME		TOPICS	TOPIC CLASS	GBCI	AIA
<b>Brian P. Monk, P.E.</b> United Technologies Corporation 629 McCaffrey Montreal QC H4T 1N3 CANADA Tel: (514) 515-4822 Email: <a href="mailto:brian.monk@carrier.utc.com">brian.monk@carrier.utc.com</a>		1 Airborne Contaminant Control in Healthcare Environments	Intermediate	0920010536	MONK01
		2 Current Trends in Design & Installation of Filtration Systems For Building HVAC Security	Intermediate		
		3 Dehumidification and Air Quality in Indoor Pool Environments	Basic/Interm		
		4 Design Concepts in DOAS: Balancing IAQ and Energy	Intermediate	0920010533	MONK03
		5 Emergency Air Filtration and Air Pollution Control for Water Treatment Plants	Intermediate		
		6 Environmental and Emissions Filtration in Waste Water Treatment Facilities	Basic/Interm		
		7 Filtration for High Performing Buildings	Basic/Interm		
		8 Gas Phase Filtration for the Elimination of Corrosive, Odorous and Toxic Gases	Intermediate		
		9 IAQ and Cognitive Functioning in High Performing Buildings	Intermediate		
		10 IAQ in Airports	Basic/Interm		
		11 The Use of Gas-Phase Air Filtration and ANSI/ ASHRAE Standard 62.1	Basic/Interm		
<b>HONORARIUM</b> None		<b>LANGUAGES</b> English French			
<b>Ross Montgomery, P.E.</b> QST 5309 Deer Forest Place Parrish, FL 34219 Tel: (941) 737-1401 Email: <a href="mailto:rossmont@aol.com">rossmont@aol.com</a>		1 ASHRAE Certification Process and Study Guides; Preparation for the ASHRAE Certification Exam Process	Basic		
		2 Building Energy Quotient Rating and Labeling	Intermediate	0920014510	MONTGOMERY0 2
		3 Commissioning Discussion of Standard 202-2013 & Guideline 0-2015 and 0.2-2015	Intermediate		
		4 Commissioning of the Built Environment - Principles, Process, Procedures, and the Future	Intermediate	0920002610	MONTGOMERY0 1
		5 Energy Audits: The basics of setting up and executing energy audits in commercial buildings	Intermediate		
		6 Testing Adjusting and Balancing (TAB) – HVAC	Intermediate		
<b>HONORARIUM</b> None		<b>LANGUAGES</b> English			

NAME		TOPICS	TOPIC CLASS	GBCI	AIA
<b>Christopher O. Muller</b> Purafil, Inc. 2654 Weaver Way Doraville, GA 30340 Tel: (770) 662-8545, X349 Email: <a href="mailto:cmuller@purafil.com">cmuller@purafil.com</a>		1 Achieving your Indoor Air Quality Goals: Which Filtration System Works Best?	Basic		
		2 Air Quality Guidelines for Museums, Archives, and Libraries	Basic		
		3 Air Quality in Data Centers: People vs. the Machines	Basic/Interm		
		4 An Evaluation of Filtration and Air Cleaning Equipment Performance in Existing Installations with Regard to Acceptable IAQ Attainment	Intermediate		
		5 Application of Gas-Phase Air Filtration in Pharmaceutical, Biotechnology, and Life Science Manufacturing	Basic		
		6 Applying the IAQ Procedure of ASHRAE 62.1-2016 at K-12 Educational Facilities	Basic/Interm		
		7 ASHRAE Standard 62.1 and LEED: Using Enhanced Air Cleaning to Integrate IAQ and Energy Conservation	Advanced		MULLER01
		8 Beyond Ozone: Cleaning Outdoor Air for IAQ	Intermediate		
		9 Clearing the Air: Advances in Gas-Phase Air Filtration Technology, Standards, and Applications	Basic		
		10 Demonstration of ASHRAE IAQ-Procedure Effectiveness for Improved IAQ and Greater Energy Efficiency	Basic/Interm		
		11 Does Control of Indoor CO2 Levels Negatively Impact IAQ?	Intermediate		
		12 Improving Building IAQ Reduces HVAC Energy Cost	Basic		
		13 Moving Closer to Net Zero Buildings with the IAQ Procedure of ASHRAE Standard 62.1-2016	Basic/Interm		
		14 Proper Design and Use of Gas-phase Air Filtration System for the Control of Environmental Tobacco Smoke	Intermediate		
		15 Protecting Against Chemical Agents of War: Applying Internal Filtration	Intermediate		
		16 Specialized Filtration Required for Museums	Intermediate		
		17 Survival in the Digital Age: Reliability Concerns for Data Center IT Equipment and Effects on Mission Critical Facilities and Operations	Basic/Interm		
		18 The Control of Nitrogen Oxides from Motor Vehicle Exhaust for Improved Air Quality	Intermediate		
		19 The Role of Filtration and Air Conditioning in Sustaining Acceptable IAQ through Ventilation Replacement	Basic/Interm		
		20 There's No Such Thing as a Free Ride: The Real Costs of Free Cooling	Intermediate		

**HONORARIUM**

None

**LANGUAGES**

English

NAME		TOPICS	TOPIC CLASS	GBCI	AIA
<b>Daniel H. Nall, P.E.</b>		1 Energy Efficient HVAC Strategies	Intermediate	0920014340	EEHS2017
Syska Hennessy Group		2 Energy Policy: An Engineering Perspective	Advanced	0920005382	EPEP2015
1515 Broadway, 14th Floor		3 Free and Passive Cooling	Basic	0920005381	FCPD2015
New York, NY 10036		4 HVAC for "Passive House" Buildings	Basic		HSPH2017
Tel: (212) 556-3367		5 Innovative HVAC Systems for Energy Efficiency	Basic		
Email: <a href="mailto:dnall@syska.com">dnall@syska.com</a>		6 Innovative Systems for Energy and Water Conservation: Four Corporate Headquarters	Intermediate	0920005373	ISEWC2012
<b>HONORARIUM</b>	<b>LANGUAGES</b>	7 LEED v4 Energy and Atmosphere Credits	Basic	0920005374	L4EAC2015
None	English	8 Making Buildings Resilient to Natural Disasters and Acts of Terror	Basic	0920005375	MBRND2015
		9 Natural Ventilation Design for Commercial Buildings using Computational Fluid Dynamics	Intermediate	0920005371	NVO310
		10 Sustainable Infrastructure for Green Communities	Interm/Adv	0920005372	SIGC2015
		11 The 2014 New York City Energy Conservation Code	Basic	0920005377	NYCECC2015
		12 The Advanced Energy Design Guide for Zero Energy K12 Schools	Intermediate		TAEDK1217
		13 The Advanced Energy Design Guides	Basic	0920005366	
		14 The Building Envelope	Intermediate	0920005378	BETECS2015
		15 The Impact of Outdoor Air Ventilation	Intermediate	0920014342	IOAV2017
		16 Underfloor Air Distribution	Intermediate	0920005380	UFO109
		17 Water Conservation and HVAC Design	Intermediate	0920005383	WCE2015
<hr/>					
<b>James L. Newman</b>		1 Energy and Sustainability in Existing Buildings - Being "Green" and Saving Green with Energy Audits	Intermediate		
Newman Consulting Group, LLC		2 Energy Auditing, Commissioning, IAQ, bEQ, Sustainability and Other Good Stuff (2 hours)	Basic/Interm		
31134 Harmony Lane		3 Green & Sustainable Practices & ASHRAE Standards – How to Design a Healthier, More Profitable Building w/Better Coordination with Owners and their Teams	Intermediate	0920010400	NEWMAN01
Farmington Hills, MI 48331-3136		4 How ASHRAE's Building Energy Quotient (bEQ) Label Drives High Performance and Energy Savings in Facilities	Intermediate	0920010402	NEWMAN03
Tel: (248) 626-4910		5 Indoor Air Quality, Productivity, Health, Energy Conservation and Legal Liability: How to Avoid Problems, OR How Much Does a Lawsuit Cost Compared to Good IAQ	Intermediate	0920010403	NEWMAN04
Email: <a href="mailto:jimn@newmanconsultinggroup.us">jimn@newmanconsultinggroup.us</a>		6 Transforming an Existing Building Into a High-Performing Facility	Intermediate	0920010401	NEWMAN02
<b>HONORARIUM</b>	<b>LANGUAGES</b>				
\$125 Donation to ASHRAE Research	English				

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
<b>Alan F. Niles</b> WaterFurnace International 3926 Vernhardson Street Gig Harbor, WA 98332-1055 Tel: (253) 509-0325 Email: <a href="mailto:alan.niles@waterfurnace.com">alan.niles@waterfurnace.com</a>	1	Design and Economics of Commercial Ground Loop Heat Pump Systems	Intermediate	0920010524 NILES01
	<b>HONORARIUM</b> None	<b>LANGUAGES</b> English		
<b>R. Mark Nunnally, P.E.</b> Nunnally & Associates, Inc. 3603 Pine Lane SE, Suite A Birmingham, AL 35242 Tel: (205) 425-0060 Email: <a href="mailto:munnally@nunnallyengineering.com">munnally@nunnallyengineering.com</a>	1	A Designer's Introduction to Commercial Desiccant Systems	Intermediate	
	2	Desiccant Dehumidification in the Healthcare Setting	Intermediate	
	3	Desiccant Dehumidification Technologies - When & Where to Apply	Basic	
	4	Designing for Absolute Moisture Control	Intermediate	
	5	Humidity Control for Commercial Buildings	Basic	
	6	Psychrometrics, Dehumidification Equipments & their Application	Basic	
	7	Understanding the Basics of Psychrometrics	Basic	
	8	Why is it Raining in my Surgery Suite?	Intermediate	
	<b>HONORARIUM</b> None	<b>LANGUAGES</b> English		
	<b>Bjarne W. Olesen, Ph.D.</b> ICIEE-DTU Department of Civil Engineering Nils Koppels Alle DTU, Building 402 Kongens Lyngby DK-2800 Denmark Tel: (454) 525-4117 Email: <a href="mailto:bwo@byg.dtu.dk">bwo@byg.dtu.dk</a>	1	Application of Radiant Heating and Cooling Systems in Buildings	Basic/Interm
2		Are women feeling colder than men in air-conditioning buildings	Basic	
3		ASHRAE a global society for building technology: Past-Present-Future	Basic	
4		Can we take into account diversity when specifying requirements for the indoor environment?	Basic	
5		Clean Cooling of Buildings	Basic	
6		How to meet the ventilation required in international standard in an energy efficient way	Basic/Interm	
7		Indoor Environment - Health, Comfort & Productivity	Basic/Interm	0920005411 Olesen01
8		International Standards for the Indoor Environment - Where are we and do they apply worldwide?	Basic/Interm	
9		The European Approach to Decrease Energy Consumption in Buildings	Basic	
10		The influence of occupant behaviour on indoor environment and energy use in buildings	Basic/Interm	
<b>HONORARIUM</b>	<b>LANGUAGES</b> English German Danish			



NAME	TOPICS	TOPIC CLASS	GBCI	AIA
<b>Raymond E. Patenaude, P.E.</b> Holmes Engineering Group, LLC 1117 Pinellas Bayway S. Apt. 404 Tierra Verde, FL 33715 Tel: (727) 369-0881 Email: <a href="mailto:ray@theholmesagency.com">ray@theholmesagency.com</a>	1 Fundamentals of Building Envelopes and Humidity Control in Hot & Humid Climates	Basic		
	2 Fundamentals of Building Envelopes in Hot & Humid Climates	Basic		
	3 Humidity Control in Buildings	Intermediate		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English			
<b>Thomas H. Phoenix, P.E., FASHRAE</b> Clark Patterson Lee 328 E. Market St Suite 200 Greensboro, NC 27401 Tel: 336.232.5755 Email: <a href="mailto:tphoenix@clarkpatterson.com">tphoenix@clarkpatterson.com</a>	1 Advanced Energy Design Guide for K-12 School Buildings: Achieving Zero Energy	Intermediate		
	2 Improving Building Performance	Intermediate		
	3 Passion and Performance	Basic		
	4 The Value of ASHRAE's bEQ	Intermediate		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English			
<b>Heather L. Platt, P.E., MBA</b> Mazzetti + GBA P.O. Box 39509 Greensboro NC 27410 Tel: 336-542-8806 Email: <a href="mailto:hplatt@mazzetti.com">hplatt@mazzetti.com</a>	1 Design vs. Facilities Maintenance	Basic/Interm		
	2 Details of a Risk Management Program for Healthcare Water Systems	Basic/Interm		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English			
<b>Douglas T. Reindl, Ph.D., P.E.</b> University of Wisconsin-Madison 432 North Lake Street Madison, WI 53706 Tel: (608) 262-6381 Email: <a href="mailto:dreindl@wisc.edu">dreindl@wisc.edu</a>	1 An Introduction to Ammonia Refrigeration Systems	Basic	0920014344	REINDL01
	2 ASHRAE Standard 15- A Review and Update	Basic/Interm	0920014345	REINDL02
	3 Back to Basics: How does a liquid chiller work?	Basic		
	4 Refrigerant Safety - Inside and Outside the Machinery Room	Basic/Interm		
	5 Thermal Energy Storage Technology to Enable Microgrids with Renewable Energy Generation	Intermediate		
	6 Understanding Safety Relief Systems	Intermediate		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English			

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
<b>Richard H. Rooley</b> Project Management Partnership Greenways Church Lane Stoke Poges,Bucks SL2 4PB UNITED KINGDOM Tel: (44) 1753-648040 Email: <a href="mailto:richard@rooley.com">richard@rooley.com</a>	1 Leadership and Management for Engineers – How to achieve profit – for whom?	Basic		
	2 Quality of the Internal Workplace and Worker Productivity: A Look beyond Engineering	Basic		
	3 Sick Building Syndrome – Reality or Myth	Basic		
	4 Sublime chaos in construction: Each profession and trade as a strange and dominant attractor	Basic		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English			
<b>Greg Scrivener</b> Cold Dynamics 10060 Jasper Ave Tower 1, Suite 2020 EdmontonAB T5J 3R8 Canada Tel: (306) 230-5429 Email: <a href="mailto:greg.scrivener@colddynamics.com">greg.scrivener@colddynamics.com</a>	1 Canadian Refrigeration Safety Code	Basic/Interm		
	2 CO2 Refrigeration and Heat Pumping	Intermediate		
	3 Refrigeration Energy Essentials	Intermediate		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English			
<b>Chandra Sekhar, Ph.D.</b> National University of Singapore Dept. of Building 4 Architecture Drive Singapore, 117566 SINGAPORE Tel: (65) 65163479 Email: <a href="mailto:bdgscs@nus.edu.sg">bdgscs@nus.edu.sg</a>	1 Advanced Room Air Distribution Strategies for Effective Airborne Infection Control	Advanced	0920005404	Sekhar02
	2 An overview of ASHRAE Standard 62.1	Basic/Interm		
	3 Building Resilience – The Role of HVAC Systems	Basic/Interm		
	4 Decoupled Ventilation Strategies for Enhanced IAQ – “Demand Cooling” and “Demand Ventilation”	Basic/Interm		
	5 Emerging HVAC technologies for energy efficient healthy buildings in hot and humid climates - 2 hours	Basic/Interm	0920005406	Sekhar04
	6 Emerging HVAC technologies for energy efficient healthy buildings in hot and humid climates - 3 hours	Interm/Adv	0920005405	Sekhar03
	7 Integrated IAQ and Energy Case Studies in the Tropics	Interm/Adv		
	8 International Ventilation and IAQ Standards	Basic/Interm		
	9 Oversized Air-Conditioning Systems and Overcooled Buildings in Hot & Humid Climates	Basic/Interm/Adv	0920005403	Sekhar01
	10 Ventilation, IAQ and Energy Issues in Hot Humid Climates – Past, Present and Future	Basic/Interm		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English			

NAME		TOPICS	TOPIC CLASS	GBCI	AIA	
<b>Gordon P. Sharp</b> Aircuity, Inc. 39 Chapel Street Newton, MA 02458-1010 Tel: (617) 641-8821 Email: <a href="mailto:gsharp@aircuity.com">gsharp@aircuity.com</a>		1 A Holistic Overview of Technologies and Strategies to Achieve Deep Energy Reductions in Laboratories	Basic/Interm/Adv			
		2 Building a Net Zero Lab in the United Arab Emirates: Mission Impossible?	Basic/Interm/Adv			
		3 Healthy, Airside Solutions to Significantly Reduce Your Carbon Footprint	Basic/Interm/Adv			
		4 Make Buildings Smarter to Maintain their Energy Efficiency Entitlement	Basic/Interm/Adv			
	<b>HONORARIUM</b>	<b>LANGUAGES</b>	5 New Approaches to Slash Building Energy Use and Improve Indoor Environmental Quality	Basic/Interm/Adv		
		English	6 Slashing Lab and Vivarium Building Energy Use by up to 50%	Basic/Interm/Adv		
<b>Max H. Sherman, Ph.D.</b> Lawrence Berkeley Laboratory 1 Cyclotron Rd MS 90-3074 Berkeley, CA 94720 Tel: (510) 486-4022 Email: <a href="mailto:mhs Sherman@lbl.gov">mhs Sherman@lbl.gov</a>		1 ASHRAE Is In The House: Past, Present and Future Initiatives in Residential Building Performance	Basic/Interm/Adv			
		2 ASHRAE's Residential Ventilation Standards	Basic/Interm/Adv			
		3 Dr. Duct Tape	Basic/Interm/Adv			
		4 Smart Ventilation and IAQ Metrics	Basic/Interm/Adv			
	<b>HONORARIUM</b>	<b>LANGUAGES</b>	5 Ventilation: The Once and Future King	Basic/Interm/Adv		
	None					
<b>Peter Simmonds, Ph.D.</b> Building and Systems Analytics LLC 4209 via Marina #408 Marina Del Rey CA 90292 Tel: (310) 383-9911 Email: <a href="mailto:psimmonds11@gmail.com">psimmonds11@gmail.com</a>		1 Designing Building Systems for Tall, Supertall, and Megatall Buildings	Basic/Interm/Adv	0920010411	SIMMONDS02	
		2 Designing Buildings and Systems for Occupant Comfort	Basic/Interm/Adv			
		3 Evaluating Occupant Comfort in Naturally Ventilated Buildings	Basic/Interm/Adv	0920014358	SIMMONDS04	
		4 High Performance Buildings and Occupant Comfort	Basic/Interm/Adv	0920010410	SIMMONDS01	
		5 Radiant Systems for Occupant Comfort	Basic/Interm/Adv			
	<b>HONORARIUM</b>	<b>LANGUAGES</b>	6 The Active and Passive Beam Design Guide	Basic/Interm/Adv	0920014347	SIMMONDS03
	None					
	English					

NAME		TOPICS	TOPIC CLASS	GBCI	AIA
<b>Dr. Rajinder Singh</b> Pusa Institute of Technology 24/24 - B Tilak Nagar New Delhi 110018 India Tel: +91 9868246628 Email: <a href="mailto:rajindersingh1102@gmail.com">rajindersingh1102@gmail.com</a>		1 Applied Psychrometry for Air-Conditioning Engineers	Intermediate		
		2 Best Practices for Operation and Preventative Maintenance of HVAC Systems in Green Buildings	Intermediate		
		3 Use of Green Secondary Refrigerant (Ice Slurry) for Refrigeration and Air-Conditioning	Advanced	0920010412	SING01
		4 Vapour Absorption Refrigeration System	Basic		
<b>HONORARIUM</b>	<b>LANGUAGES</b>				
\$500	English				
<b>Henry H. Slack, P.E.</b> 139 Erie Ave. Decatur,GA 30030 Tel: (404) 217-4229 Email: <a href="mailto:henry.h.slack@gmail.com">henry.h.slack@gmail.com</a>		1 After the Mold Rush: Solving Mold Problems	Basic		
		2 Catching Your Breath; Is Your Outside Air Always Safe to Breathe?	Basic		
		3 Climate Change: How ASHRAE Members Can Prepare	Basic		
		4 Fixing the Great Indoors: HVAC and Indoor Air Quality	Basic		
		5 How Can Climate Change Impact Indoor Air Health?	Basic		
		6 Indoor Air Disasters: Stories of Recovery from Katrina, Hurricanes, Wildfires, and Other Disasters	Basic		
		7 Ventilation Research: Is More Air Better for Us	Basic		
<b>HONORARIUM</b>	<b>LANGUAGES</b>				
None	English				
<b>Wei Sun, P.E.</b> Engsysco, Inc. 1665 Highland Drive Ann Arbor, MI 48108 Tel: (734) 274-4022 Email: <a href="mailto:wsun@engsysco.com">wsun@engsysco.com</a>		1 Cleanrooms and HVAC Systems Design Fundamentals	Intermediate		
		2 Design of Pressurization Systems – Technologies in Room/Suite Pressure Control, Performance Evaluation and Design Practices	Intermediate		
		3 Fan Energy Conservation in Cleanrooms – Airflow Modeling and Demand Flow Control	Intermediate		
		4 HVAC Systems Design for Airborne Infection Control Spaces in Healthcare Facilities	Intermediate		
		5 Laboratories and HVAC Systems Design Fundamentals	Intermediate		
		6 Primary, Secondary & Tertiary Air Handling Systems Design Strategies for Controlled Environments	Intermediate		
<b>HONORARIUM</b>	<b>LANGUAGES</b>				
None	English				

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
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**E. Mitchell Swann, P.E.**

MDC Systems, LLC  
 1800 E. Lancaster Ave.  
 Paoli, PA 19301  
 Tel: (610) 640-9600, ext.19  
 Email: [swann@mdcsystems.com](mailto:swann@mdcsystems.com)

**HONORARIUM                      LANGUAGES**

Negotiable                      English

- |   |   |              |
|---|---|--------------|
| 1 | “Can’t We All Just Get Along?” – Keeping Your Eye on the Prize Despite Getting Poked in it (Alternative Dispute Resolution in Construction) | Intermediate |
| 2 | Are We There Yet? What is "Substantial Completion" ? (...and how do we know when we get there?)   | Basic/Interm |
| 3 | Connecting Green Building Outcomes to Enterprise Sustainability Programs  | Advanced     |
| 4 | Design – Build and the Standard of Care: Under which Standard? Under whose Care?  | Intermediate |
| 5 | Design Build – Executing the Project (based on the ASHRAE Design Build Survival Guide)  | Basic/Interm |
| 6 | Design Build for Green Buildings – Integrated Delivery of an Integrated Idea  | Basic/Interm |
| 7 | Don't let your BIM go "BOOM"! Dealing with the potential liability issues of BIM  | Basic/Interm |
| 8 | Green Design and Sustainability – Un-definable Success in a Defined World   | Intermediate |
| 9 | Jedi Mind Tricks for IPD (First, you've got to want to...)  | Basic/Interm |

**Om Taneja, FASHRAE, Ph.D., P.E.**

Associated Consulting Company  
 118 Henderson Rd  
 Kendall Park,NJ 08824  
 Tel: (908) 604-8689  
 Email: [taneja.om@gmail.com](mailto:taneja.om@gmail.com)

**HONORARIUM                      LANGUAGES**

None                      English

- |    |  |              |
|----|--|--------------|
| 1  | Facing the Realities and Challenges of Urbanization, Smart Cities, Smart Infrastructure & Smart Buildings for Greater Sustainability & Resilience  | Intermediate |
| 2  | Leveraging Innovative Technologies for Life Cycle Operational Efficiency and Improved Indoor Environment Quality   | Intermediate |
| 3  | An Approach to Facilities Operational Improvements: Train O&M Staff and Provide Tools to Measure, Track & Adjust Equipment and Systems   | Intermediate |
| 4  | An approach to Improved Indoor Air Quality and Operations of Buildings: Adopt Smart Buildings Technologies and Train Operations and Maintenance Staff for Required Competencies            | Intermediate |
| 5  | Analytical, Performance & Prescriptive codes & Measure for Life Cycle assessment of Sustainability & Energy Efficiency Projects  | Intermediate |
| 6  | Analytical, Performance & Prescriptive Measure for Life Cycle assessment of Facilities Projects  | Intermediate |
| 7  | Bridging the Knowledge, Technology and personnel Gap for High Performance Buildings from Concept through Operations  | Intermediate |
| 8  | Framework For Structured Transformation to Future of Facilities to Foster Innovation , Operational Excellence & Resilience -Bridging The Gap In Performance From Concept Though Operations | Intermediate |
| 9  | Improved Operations & Maintenance Measures for better Energy Performance and Environmental impact of HVAC & chiller plants   | Intermediate |
| 10 | Improved Operations & Maintenance Measures for better Energy Performance and Environmental impact of HVAC & chiller plants   | Intermediate |
| 11 | Operations & Maintenance Measures for Improving Performance of HVAC Systems & chiller plants   | Intermediate |
| 12 | Sustainability & Energy Efficiency - Bridging The Gap In Performance From Concept Though Operations  | Intermediate |

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
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**James R. Tauby, P.E.**

Mason Industries, Inc.  
 350 Rabro Drive  
 Hauppauge, NY 11788  
 Tel: (631) 348-0282  
 Email: [jtauby@mason-ind.com](mailto:jtauby@mason-ind.com)

1	Anchoring & Restraint of Rooftop Equipment in High Wind Areas	Intermediate	0920010390	TAUBY02
2	Penthouse Mechanical Rooms, Why are They Seismically a Challenge?	Intermediate	0920010387	TAUBY01
3	Proper Installation Methods Using ASHRAE's "Practical Guide to Seismic Restraint"	Intermediate		
4	Seismic Restraint of Mechanical Systems	Intermediate	0920010386	TAUBY03

**HONORARIUM**

**LANGUAGES**

None

English

**Stephanie Taylor, M.D., M. Arch.**

Taylor Healthcare Commissioning, Inc  
 PO Box 593  
 StoweVT 05672-0593  
 Tel: (860) 501-8950  
 Email: [MD@taylorcx.com](mailto:MD@taylorcx.com)

1	Engineers are the Physicians of the Future	Basic		
2	Health as a Building Performance Metric	Basic		
3	Healthcare-associated Infections and Hospital Indoor Air Quality	Basic		
4	Learn to love Microbes	Basic		
5	The Impact of the Built Environment on Cognitive Functioning and Worker Productivity	Basic		

**HONORARIUM**

**LANGUAGES**

None

English

**Paul Torcellini**

NREL( National Renewable Energy Laboratory)  
 15013 Denver West Parkway  
 GoldenCO 80401  
 Tel: +1 (303) 384-7528  
 Email: [Paul.Torcellini@nrel.gov](mailto:Paul.Torcellini@nrel.gov)

1	Creating a World of Zero Energy Buildings	Basic		
2	On-site Renewable Energy: What to know and what are the myths?	Basic		
3	Performance Based Procurement for Outstanding Energy Performance	Basic		
4	The Advanced Energy Design Guide for Zero Energy Buildings	Basic		

**HONORARIUM**

**LANGUAGES**

None

English

NAME		TOPICS	TOPIC CLASS	GBCI	AIA	
<b>Terry E. Townsend, P.E.</b> Townsend Engineering, Inc. P.O. Box 23526 Chattanooga, TN 37422 Tel: (423) 855-1184 Email: <a href="mailto:terry@townsend-engineering.com">terry@townsend-engineering.com</a>		1	Advanced Energy Conservation & IEQ Design Guidance & Applications	Basic		
		2	ASHRAE: Leading the World to an Independent & Sustainable Future	Basic		
		3	Building Performance – Tools, Metrics & Protocols for Global Applications	Basic		
		4	Energy Goals and Integrated Design	Basic		
		5	Solutions for Existing Buildings having Performance + IEQ Problems	Basic		
		6	Steps to Making Existing Commercial Buildings More Efficient, Healthy and Comfortable	Basic		
		7	Sustainable Applications That Work	Basic		
		8	What's Hot in Sustainability?	Basic		
<b>HONORARIUM</b>	<b>LANGUAGES</b>					
None	English					
<b>Paolo Tronville, Ph.D.</b> Corso Mediterraneo 140 Torino, TO 10129 Italy Tel: +390110904477 Email: <a href="mailto:paolo.tronville@polito.it">paolo.tronville@polito.it</a>		1	HVAC Air Filter System Design Tools: What is Available and How to Use Them	Intermediate		
		2	Introduction to Particulate Matter (PM) Measurement for General Ventilation Applications	Intermediate		
		3	Standardization Activity in the Field of Air Cleaning Equipment	Intermediate		
		4	Understanding Air Filter Test Report Data	Intermediate		
<b>HONORARIUM</b>	<b>LANGUAGES</b>					
	English Italian					
<b>T. David Underwood, P.Eng.</b> 607-100 Lakeshore Road E Oakville, Ontario L6J 6M9 CANADA Tel: (416) 948-8902 Email: <a href="mailto:dunderwood@hvacrtdu.com">dunderwood@hvacrtdu.com</a>		1	Application of Standard 189.1-2014	Basic	0920010358 UNDERWOOD03	
		2	Building Energy Quotient	Intermediate	0920010356 UNDERWOOD02	
		3	Career Opportunities for Students in ASHRAE	Basic		
		4	Ethics and Morality ASHRAE's perspective	Basic		
		5	How Does the Government Affairs Committee (GAC) Serve Humanity and Promote a Sustainable world?	Intermediate		
		6	The Smart Grid and ASHRAE Standard 201	Intermediate		
		7	Tips, Tricks, and Techniques of Commissioning	Intermediate	0920010355 UNDERWOOD01	
<b>HONORARIUM</b>	<b>LANGUAGES</b>					
None	English					

NAME	TOPICS	TOPIC CLASS	GBCI	AIA	
<b>James Vallort</b> Environmental Systems Design Inc 50 Solstice Ct ErieCO 80516 Tel: (630) 846-9574 Email: <a href="mailto:jvallort@esdglobal.com">jvallort@esdglobal.com</a>	1	Achieving a Green Data Center: More than a Good Design Is Needed			
	2	Building Automation System Master Planning - Take Control of Your Facility's Future	Intermediate		
	3	Critical Facilities New Construction Commissioning and Existing Building Commissioning	Basic		
	4	Intelligent Buildings – Technology is changing what is possible in the built environment	Basic		
	5	Primary Heating/Cooling Plant Strategies & How to Maximize the Energy & Financial Savings	Intermediate	0920010404	JVALLORT01
<b>HONORARIUM</b>  <b>LANGUAGES</b> English		Advanced	0920010405	JVALLORT02	
<b>R. Vijayakumar, Ph.D.</b> Aerfil, LLC P.O. Box 41 Liverpool, NY 13088 Tel: (315) 506-6883 Email: <a href="mailto:vijay@aerfil.com">vijay@aerfil.com</a>	1	Basics of Cleanroom Design	Basic/Interm		
	2	Considerations for Clean Air, Filtration and Energy Usage in IAQ	Basic/Interm	0920014360	VIJAYAKUMAR01
	3	Contaminant Control Considerations in Hospitals and Health Care Settings	Intermediate	0920014361	VIJAYAKUMAR03
	4	Energy and Filters	Basic		
	5	Fibrous Filter Media	Basic/Interm		
	6	Filter Test Standards: Similar but different - Buyer beware	Basic/Interm	0920005394	Vijakakumar02
	7	Fundamentals of High Efficiency Air Filters - Theory & Practice	Basic/Interm		
	8	Introduction to Particle Measurements	Basic/Interm		
	9	Introduction to Particle Mechanics	Interm/Adv		
	10	Particle measurement for IAQ and Cleanrooms - What are you really measuring?	Advanced		
	11	Testing High Efficiency Filters	Basic/Interm		
<b>HONORARIUM</b> None					
<b>Timothy G. Wentz</b> University of Nebraska-Lincoln 8012 Dougan Circle LincolnNE 68516 Tel: (402)-770-3973 Email: <a href="mailto:tim.wentz@windstream.net">tim.wentz@windstream.net</a>	1	Mitigating Risk: Changed Conditions	Basic		
	2	Mitigating Risk: The Interface Between Risk and Ethics	Basic		
	3	Mitigating Risk: Understanding the Construction Claim Process	Basic		
	4	The Future of Our Industry	Basic		
<b>HONORARIUM</b>  <b>LANGUAGES</b>					



NAME		TOPICS	TOPIC CLASS	GBCI	AIA
<b>Ronald J. Wilkinson, P.E.</b> 2601 W. Manor Place Apt. B523 Seattle, WA 98199 Tel: 206-602-4460 Email: <a href="mailto:Rwilk99@gmail.com">Rwilk99@gmail.com</a>		1 Building Commissioning: It's All About the People	Intermediate	0920005470	Wilkinson08
		2 Commissioning for New and Existing Buildings	Basic	0920005455	Wilkinson07
		3 Commissioning Green Buildings for ASHRAE and the USGBC LEED Program	Intermediate	0920002636	WILKINSON01
		4 Existing Building Commissioning	Basic	0920005469	Wilkinson02
		5 Get Published	Basic		
		6 LEED and ASHRAE Cx and Automated Fault Diagnosis	Advanced	0920005465	Wilkinson05
		7 Make the OPR, BOD and Systems Manual Work for You	Intermediate	0920005467	Wilkinson03
		8 Ten Items to Watch Out for: A Meta Study of Three LEED ID&C Projects in NYC High-rise Buildings	Basic	0920005466	Wilkinson04
		9 Whats wrong with this picture?	Basic	0920005464	Wilkinson06
<b>HONORARIUM</b> Variable - Contact speaker (\$200 – 1 hour, \$1200 – 1 day seminar)	<b>LANGUAGES</b> English				
<b>Douglas F. Zentz</b> Ferris State University 20616 Madison Avenue Big Rapids, MI 49307-9755 Tel: (231) 591-3052 Email: <a href="mailto:zentzd@ferris.edu">zentzd@ferris.edu</a>		1 Applied Psychrometrics	Intermediate		
		2 ASHRAE Standard 189.1 – "Standards for the Design of High Performance Buildings; except Low-Rise Residential"	Advanced		
		3 Doing More With Less	Interm/Adv		
		4 How to Communicate Technically in a Professional World with Technical Information	Intermediate		
		5 HVAC and Energy Efficiency	Basic		
		6 Sustaining ASHRAE Through Leadership, Mentoring Our Future	Intermediate		
		7 What's Your EUI?	Interm/Adv		
<b>HONORARIUM</b> None	<b>LANGUAGES</b> English				
<b>Randal S. Zimmerman</b> Titus 605 Shiloh Rd Plano, TX 75074 Tel: (972) 212-4811 Email: <a href="mailto:zimmerman@titus-hvac.com">zimmerman@titus-hvac.com</a>		1 Displacement Ventilation	Basic		
		2 General Air Distribution	Basic		
		3 Sound Advice	Basic		
		4 Terminal Unit Technology	Basic		
<b>HONORARIUM</b>	<b>LANGUAGES</b> English				