

ASHRAE Distinguished Lecturers

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Wednesday, December 6, 2017

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
Devin A. Abellon, P.E. Uponor 25404 North 52nd Avenue Phoenix, AZ 85083-4444 Tel: (760) 902-4879 Email: devin.abellon@uponor.com	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
HONORARIUM None	LANGUAGES English			
Roberto R. Aguilo, P.E. Estudio Aguilo & Asociados Tres Arroyos 2421 Buenos Aires, 1416 ARGENTINA Tel: (54911) 4148-2111 Email: raguilo@yahoo.com	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		
HONORARIUM None	LANGUAGES English Spanish			
William P. Bahnfleth, Ph.D., P.E. Pennsylvania State University 1426 South Pugh Street University Park, PA 16802 Tel: (814) 863-2076 Email: wbahnfleth@psu.edu	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
HONORARIUM None	LANGUAGES English			

NAME		TOPICS	TOPIC CLASS	GBCI	AIA
Hoy R. Bohanon, Jr., P.E.		1 Applying ASHRAE Standards to Existing Buildings	Basic		
Hoy Bohanon Engineering PLLC 8236 Arbor Ridge Lane Clemmons, NC 27012 Tel: (336) 972-1626 Email: bohanoneng@gmail.com		2 ASHRAE Building Energy Quotient (bEQ)	Basic	0920010381	BOHANON05
HONORARIUM	LANGUAGES	3 Commissioning, Operating and Maintaining Air-to-Air Energy Recovery Systems	Advanced	0920010385	BOHANON01
None	English	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		
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Thiam Leong Chen, P.E., CEng.		1 A Selection of Common HVAC Design Problems for Hot & Humid Climate Application	Interm/Adv		
Primetech Engineers, Sdn Bhd 19B & 21B, Jalan 17/45 Petaling Jaya Selangor, 46400 MALAYSIA Tel: (601) 22159813 Email: tichen55@gmail.com		2 Beyond Refrigerants: What's in store after HFOs & Naturals?	Intermediate		
HONORARIUM	LANGUAGES	3 Chilled Slab Cooling in Hot & Humid Climate Application	Interm/Adv		
None	English	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		
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James J. Coogan, P.E.		1 Air Flow Controls at the Terminal Level	Intermediate		
Siemens Building Technology 1000 Deerfield Parkway Buffalo Grove, IL 60089 Tel: 847 899 4660 Email: jim.coogan@siemens.com		2 ASHRAE Guideline 36P: High Performance Sequences of Operation	Advanced		
HONORARIUM	LANGUAGES	3 Feedback Systems in HVAC	Intermediate		
	English	4 Lighting and HVAC Control, Integrated at the Room Level	Basic	0920014276	COOGAN02
		5 Methodical Approach to Sustainability in Labs	Basic		
		6 Space Pressurization: Concept and Practice	Intermediate	0920014277	COOGAN01

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
Drury Crawley, Ph.D. Bentley Systems, Inc. 4539 Albemarle Street Washington, DC 20016 Tel: (202) 422-6464 Email: dbcrawley@gmail.com	1 BIM to SIM (or How Do I Get That Rich Data into My Simulations Without Reentering?)	Basic/Interm	0920010364	CRAWLEY03
	2 Building Performance Simulation: What's in the Black Box	Basic/Interm/Adv	0920010371	CRAWLEY07
	3 EnergyPlus, DOE's New Generation Building Energy Simulation Program	Basic/Interm/Adv	0920010365	CRAWLEY04
	4 Getting From AEDGs to Zero-Energy Buildings	Basic/Interm	0920010370	CRAWLEY06
	5 Impacts of Climate Change & Urbanization on Future Building Performance	Basic/Interm	0920010369	CRAWLEY05
	6 Standard 189.1 - Structure, Requirements & Energy Savings	Basic/Interm/Adv	0920010400 LEED BD+C	CRAWLEY01
	7 Trends: Buildings, Technologies and Tools	Basic/Interm	0920010363	CRAWLEY02
HONORARIUM \$250 donation to ASHRAE Research	LANGUAGES English			
Chandana N. Dalugoda Chandana Dalugoda Consultants 12/9, Maharagama Road Makuluduwa Piliyandala 10300 SRI LANKA Tel: 94777785778 Email: chandana_cnd@sltnet.lk	1 Air Conditioning Systems for Tropical Humid Climates	Intermediate	0920010351	DALUGODA02
	2 Applied Psychometrics for Air Conditioning Systems	Basic		
	3 Cooling Load Calculations ASHRAE CLTD/SCL/CLF Method	Basic		
	4 Reducing Carbon Footprint of Buildings in Developing Economies	Advanced	0920010353	DALUGODA04
	5 Sustainable HVAC Designs for Green Buildings	Advanced	0920010352	DALUGODA03
HONORARIUM None	LANGUAGES English			
Julian R. de Bullet de Bullet Consulting 479 Baldwin Road Front Royal, VA 22630 Tel: (703) 483-0179 Email: julian@debullet.com	1 Centrifugal Chiller Fundamentals	Basic		
	2 Chiller Plant Design Fundamentals	Basic		
	3 Climate Changes	Advanced		
	4 Condenser Water Heat Recovery	Advanced		
	5 Constant Flow Chiller Plant Design	Intermediate		
	6 Energy Analysis, Option or Necessity?	Basic		
	7 Green "Sustainable" HVAC Design	Intermediate	0920010523	DEBULLET01
	8 Optimal Air - A Cool Solution	Intermediate		
	9 Responsible Use of Refrigerants	Advanced		
	10 The Next Ice Age	Basic		
	11 Variable Flow Chiller Plant Design	Advanced		
HONORARIUM None	LANGUAGES English			

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
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Pamela Duffy, P.E.

Lennox International
 15800 Spectrum Dr
 Apt 1119
 Addison, TX 75001
 Tel: (404) 434-8793
 Email: pamela.duffy@lennoxind.com

HONORARIUM

LANGUAGES

English

1	Boost Your Salary with Professional Development Skills	Basic		
2	How I Built My Career in HVAC	Basic		
3	How Standards are Made, and other ASHRAE "Secrets"	Basic		
4	People Management: How to be the World's Best Boss!	Basic		
5	Take it from a Millennial: Generation Differences in the Workforce	Basic		
6	The State of Women in Engineering	Basic		
7	Variable Refrigerant Flow: 101	Basic		
8	VRF Applied: Lessons Learned	Intermediate		

James C. Edmondson

James M. Pleasants Company
 603 Diamond Hill Road
 Greensboro, NC 27406
 Tel: (336) 378-9911
 Email: chrise@jmpco.com

HONORARIUM

LANGUAGES

None

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		

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
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Victor W. Goldschmidt, Ph.D.

Dynamic Creativity Applications
P.O. Box 423
Northport, MI 49670
Tel: (231) 386-9058
Email: 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		

Patricia T. Graef, P.E., Fellow ASHRAE

Munters Corporation
17710 Nalle Road
N. Ft. Myers, FL 33917
Tel: (239) 218-8030
Email: pat.graef@att.net

HONORARIUM

LANGUAGES

English

1	The Logic of Dedicated Outside Air Systems and The Core Technologies That Make Them Effective	Basic/Interm		
2	The New Legionella Standard: ANSI/ASHRAE 188-2015 'Legionellosis: Risk Management for Building Water Systems'	Basic/Interm		

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
Eckhard A. Groll, Dr. Eng. Purdue University, Ray W. Herrick Labs 177 S. Russel Street West Lafayette, IN 47907 Tel: (765) 496-2201 Email: groll@purdue.edu	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
HONORARIUM	LANGUAGES			
None	English			
Walter T. Grondzik Ball State University 221 N. Alden Rd Muncie, IN 47304 Tel: (850) 322-8343 Email: gzik@gzik.org	1 Building Commissioning	Basic		
	2 Comfort	Basic		
	3 Sustainability	Basic		
HONORARIUM	LANGUAGES			
	English			
Charles E. Gulledge, III, P.E. AC Corporation 301 Creek Ridge Road Greensboro, NC 27406 Tel: (336) 273-4472 Email: cgulledge@accorporation.com	1 Green Industrial HVAC Design	Basic/Interm		
	2 Integrated Building Design	Basic/Interm	0920010354	GULLEDGE01
	3 MasterFormat 2004	Basic/Interm		
HONORARIUM	LANGUAGES			
None	English			
Sheila J. Hayter, P.E. NREL 1425 Normandy Rd Golden, CO 80401 Tel: (303) 384-7519 Email: sheila.hayter@nrel.gov	1 Integrating Renewable Energy Systems into Buildings	Basic/Interm		
HONORARIUM	LANGUAGES			
None	English			

NAME		TOPICS	TOPIC CLASS	GBCI	AIA	
Jorge E. Hernandez, P.E. Regional Managers & Associates 12609 Oulton Circle Orlando, FL 32832 Tel: (305) 505-2906 Email: seca@sengineering.com		1	Basic Air Conditioning Concepts for beginning Engineers and Architects	Basic		
		2	Basic Psychrometrics for Industrial Refrigeration Professionals	Basic		
		3	Critical Applications	Basic/Interm/Adv		
		4	Displacement Ventilation	Basic/Interm/Adv		
		5	Latest Developments in the HVAC world	Basic/Interm/Adv		
		6	Psychrometrics of Displacement Ventilation	Advanced		
HONORARIUM	LANGUAGES					
None	English Spanish Portuguese					
Bruce D. Hunn, Ph.D. 3324 Harden Road Raleigh, NC 27607 Tel: (404) 455-9735 Email: hunnbuildingenergy@gmail.com		1	ASHRAE Research: How Your Research \$ Are Put to Work	Basic		
		2	ASHRAE Technical Activities and the Technical Committees: How You Can Participate	Basic		
		3	ASHRAE's Building Energy Quotient Labeling Program	Intermediate	0920014279	HUNN03
		4	Best Practice for Evaluating and Improving Commercial Building Performance	Interm/Adv	0920014280	HUNN02
		5	Building Energy Performance Protocols and Their Application	Interm/Adv	0920014281	HUNN01
		6	Standard for Commercial Building Energy Audits - ASHRAE Standard 211P	Basic		
HONORARIUM	LANGUAGES					
None	English					
Daniel Int-Hout, III Krueger 1401 North Plano Road Richardson, TX 75081 Tel: (972) 497-0418 Email: daninthout@aol.com		1	Connections	Basic		
		2	Methods of Effective Room Air Distribution	Intermediate		
		3	Selecting VAV Products for Acceptable Environments	Intermediate		
		4	The Basics of Air Distribution	Basic/Interm		
		5	You Can't Afford Discomfort	Intermediate		
HONORARIUM	LANGUAGES					
None	English					

NAME		TOPICS	TOPIC CLASS	GBCI	AIA
Hank Jackson, P.E.		1	Beam Me Up Scottie! Transport Energy: Motors, Fans, & Pumps		
ETech Solutions		2	Commissioning Critical Environment Facilities – Lessons Learned		
P.O. Box 2355		3	Green Buildings: Help or Hype?		
Weaverville, NC 28787		4	Introduction to Geothermal Heat Pump Systems		
Tel: (828) 691-0785		5	Just Do It! How to Get Started With an Energy Efficiency Survey		
Email: hjackson@juno.com		6	Overcoming Objections to Energy Efficiency Investments		
HONORARIUM	LANGUAGES	7	Transformers: Turning Existing Buildings Green		
None	English				
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Ronald E. Jarnagin		1	Advanced Energy Design Guides – Going Beyond Minimum Standards		
355 Falconridge Street		2	ASHRAE Headquarters Renovation – What Happens When Leaders try to do it Right		
Richland, WA 99352		3	ASHRAE's Building Energy Labeling Program, the Building Energy Quotient (bEQ)		
Tel: (509) 430-4113		4	Standard 90.1 – Past, Present and Future		
Email: ron.jarnagin@pnl.gov		5	Sustaining ASHRAE Through Leadership		
HONORARIUM	LANGUAGES				
None	English				
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Julia A. Keen, P.E., Ph.D.		1	ASHRAE bEQ – Building Performance vs Building Certification & Rating		
Kansas State University		2	Ethical Decision Making – An Exercise in Application		
2062 Seaton Hall		3	How to Increase Profit - Retention of Women Engineers in the Workforce	0920010408	KEEN01
920 N 17th St		4	Millenials – How to Manage the next Generation		
Department of Architectural Engineering		5	Tools for Success (that do not Require a Calculator)		
Manhattan,KS 66506					
Tel: (319) 230-8522					
Email: jkeen@ksu.edu					
HONORARIUM	LANGUAGES				
None	English				

NAME	TOPICS	TOPIC CLASS	GBCI	AIA				
Kishor Khankari, Ph.D. AnSight LLC 3814 Mill Pond Lane Ann Arbor, MI 48108 Tel: (734) 327-4079 Email: kishork@ansight.com	1	Airflow Management Best Practices for Data Centers			Basic/Interm/Adv	0920014296	KHANKARI04	
	2	Airflow Management for Healthcare Facilities			Basic/Interm/Adv	0920010407	KHANKARI05	
	3	Airflow Management for Laboratory Facilities			Intermediate	0920014291	KHANKARI06	
	4	Applications of Computational Fluid Dynamics (CFD) for Built Environment			Basic/Interm/Adv	0920014282	KHANKARI01	
	5	Design and Analysis of Natural Ventilation Systems			Basic/Interm/Adv	0920014283	KHANKARI02	
	6	Stratified Air Ventilation Systems			Basic/Interm/Adv	0920014292	KHANKARI03	
HONORARIUM None	LANGUAGES 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	1	Natatorium Design and Dehumidification			Basic/Interm			
HONORARIUM None	LANGUAGES English							
M. Dennis Knight, P.E. Whole Building Systems, LLC P.O. Box 1845 Mt. Pleasant SC 29464 Tel: (843) 437-3647 Email: dknight@wholebuildingsystems.com	1	ASHRAE Building Energy Quotient (bEQ)			Basic			
	2	ASHRAE Standard 62.1 – the IAQ Procedure and LEED						
	3	Building Information Modeling for the Mechanical Disciplines				Basic		
	4	Building Performance Analysis for Building Performance Rating Systems				Intermediate	0920004628	KNIGHT03
	5	Developing an Integrated Personal Management System to help Get Things Done				Basic	0920004588	KNIGHT02
	6	Integrated Building Design and Building Information Modeling				Intermediate	0920004589	KNIGHT01
HONORARIUM None	LANGUAGES English							

NAME		TOPICS	TOPIC CLASS	GBCI	AIA	
Thomas M. Lawrence, Ph.D., P.E. University of Georgia Driftmier Engineering Center Annex Room 106 Athens, GA 30602 Tel: (706) 542-4322 Email: lawrence@engr.uga.edu		1	CO2 Monitoring for Outdoor Airflow and Demand-Controlled Ventilation	Intermediate	0920010415	LAWRENCE01
		2	High Performance Building Design – What the Future holds for the Direction for our Industry	Intermediate	0920005392	Lawrence03
		3	International Energy Efficiency Standards and Guidelines	Basic		
		4	The Coming Age of a Smart Grid and Smart Buildings	Intermediate	0920014297	LAWRENCE01
		5	The 'Green Awakening': The Coming Carbon Economy & Determining Your Building's CO2 Footprint	Basic	0920010413	LAWRENCE04
		6	The Updated ASHRAE Standard 189.1-2017 for High Performance Green Buildings	Intermediate		
		7	Thermal Comfort as Related to Energy Consumption: What is the Balance?	Basic	0920014298	LAWRENCE05
		8	What ASHRAE is Doing to Become a Global Society	Basic		
HONORARIUM LANGUAGES None English						
Karine Leblanc US Air Conditionings Distributors 16900 Chestnut St City of Industry,CA 91748 Tel: (310) 420-7066 Email: karine@leblancusa.com		1	How Good Leaders Become Great Leaders with Emotional Intelligence	Basic		
		HONORARIUM LANGUAGES None English French				
Luke C.H. Leung, P.E. Skidmore, Owings, & Merrill 224 S. Michigan Avenue 10th Floor Chicago,IL 60604 Tel: (312) 360-4121 Email: luke.leung@som.com		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		
HONORARIUM LANGUAGES None English Chinese						

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
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Marlene L. Linders

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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

HONORARIUM

LANGUAGES

None

English

Andrey Livchak, Ph.D.

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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

HONORARIUM

LANGUAGES

None

English

Apichit Lumlertpongpana, P.E.

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Kwang Saphansoong
Khet Saphansoong
Bangkok, 10240
THAILAND
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Email: apichit.lpana@itc-group.co.th

1	How to Design Ammonia Save & Safe?	Advanced		
2	Ice on Coil External and Internal Melt Thermal Ice Storage Design	Intermediate		
3	Industrial Refrigeration for Marine Products Processing Facility	Intermediate		
4	Industrial Refrigeration for Poultry Processing Plant	Intermediate		
5	Refrigeration System and C.A. Control for Vegetable and Tropical Fruit Processing Plant	Intermediate		
6	Start to End of Turnkey Industrial Refrigeration Plant Design-Built	Advanced		

HONORARIUM

LANGUAGES

None

Chinese
English
Thai

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
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Mark M. MacCracken, P.E.

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 Email: mm@calmac.com

- | | | | | |
|---|--|--------------|------------|--------------|
| 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 | | |

HONORARIUM

LANGUAGES

None

English

R. Christopher Mathis

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- | | | | | |
|---|--|--------------|------------|----------|
| 1 | ASHRAE Is In The House: Past, Present and Future Initiatives in Residential Building Performance | Basic | | |
| 2 | Bringing ASHRAE 90.1 to the World: The Addition of Climate Zone 0 | Basic | | |
| 3 | Building Science Lessons from the Honey Bee | Basic | | |
| 4 | Energy Efficiency in Commercial Buildings | Basic | | |
| 5 | Energy Efficiency in Residential Buildings | Basic | | |
| 6 | Energy Efficient Window and Fenestration Technologies | Intermediate | | |
| 7 | How Long Will it Last? Addressing the Challenge of Sustainability | Basic | | |
| 8 | Primary Energy in Commercial Buildings | Basic | | |
| 9 | Why Buildings Matter and the Role of ASHRAE 90.1 | Basic | 0920005398 | Mathis01 |

HONORARIUM

LANGUAGES

\$250 Donation
 to ASHRAE
 Research

English

Christopher M. McDonald, Esquire

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 Tel: (816) 474-6550
 Email: cmcdonald@shb.com

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|---|--|--------------|--|--|
| 1 | Document Management & Discovery – How Documents & E-mails are Used in Litigation | Intermediate | | |
| 2 | IAQ & Mold: Legal Issues and Liability Concerns for Engineers & Related Industry Professionals | Intermediate | | |

HONORARIUM

LANGUAGES

None

English

NAME		TOPICS	TOPIC CLASS	GBCI	AIA
Frank Mills 7 Fylde Ave Leyland, Lancashire PR26 6RP UK Tel: +44 1772 424124 Email: famills@low-carbondesign.com		1 ASHRAE Cold Climate Design Guide	Basic		
		2 Design of Atrium Buildings	Intermediate		
		3 Energy Savings in Pubs, Restaurants, and Hotels	Intermediate		
		4 Hot Climate Design Guide	Basic		
		5 Natural Ventilation	Basic		
		6 Net Zero Energy Buildings	Intermediate		
		7 Net Zero Hospitals	Intermediate		
HONORARIUM	LANGUAGES				
	English				
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Brian P. Monk, P.E. United Technologies Corporation 629 McCaffrey Montreal QC H4T 1N3 CANADA Tel: (514) 515-4822 Email: brian.monk@carrier.utc.com		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 in Airports	Basic/Interm		
		10 The Use of Gas-Phase Air Filtration and ANSI/ ASHRAE Standard 62.1	Basic/Interm		
HONORARIUM	LANGUAGES				
None	English French				
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Ross Montgomery, P.E. QST 5309 Deer Forest Place Parrish, FL 34219 Tel: (941) 737-1401 Email: rossmont@aol.com		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		
HONORARIUM	LANGUAGES				
None	English				

NAME		TOPICS	TOPIC CLASS	GBCI	AIA
Christopher O. Muller Purafil, Inc. 2654 Weaver Way Doraville, GA 30340 Tel: (770) 662-8545, X349 Email: cmuller@purafil.com		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		

HONORARIUM

None

LANGUAGES

English

NAME		TOPICS	TOPIC CLASS	GBCI	AIA	
Daniel H. Nall, P.E. Syska Hennessy Group 1515 Broadway, 14th Floor New York, NY 10036 Tel: (212) 556-3367 Email: dnall@syska.com		1	Energy Efficient HVAC Strategies	Intermediate	0920014340	EEHS2017
		2	Energy Policy: An Engineering Perspective	Advanced	0920005382	EPEP2015
		3	Free and Passive Cooling	Basic	0920005381	FCPD2015
		4	HVAC for "Passive House" Buildings	Basic		HSPH2017
		5	Innovative HVAC Systems for Energy Efficiency	Basic		
		6	Innovative Systems for Energy and Water Conservation: Four Corporate Headquarters	Intermediate	0920005373	ISEWC2012
		7	LEED v4 Energy and Atmosphere Credits	Basic	0920005374	L4EAC2015
		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
James L. Newman Newman Consulting Group, LLC 31134 Harmony Lane Farmington Hills, MI 48331-3136 Tel: (248) 626-4910 Email: jimn@newmanconsultinggroup.us		1	Energy and Sustainability in Existing Buildings - Being "Green" and Saving Green with Energy Audits	Intermediate		
		2	Energy Auditing, Commissioning, IAQ, bEQ, Sustainability and Other Good Stuff (2 hours)	Basic/Interm		
		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
		4	How ASHRAE's Building Energy Quotient (bEQ) Label Drives High Performance and Energy Savings in Facilities	Intermediate	0920010402	NEWMAN03
		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
		6	Transforming an Existing Building Into a High-Performing Facility	Intermediate	0920010401	NEWMAN02
HONORARIUM None	LANGUAGES English					
HONORARIUM \$125 Donation to ASHRAE Research	LANGUAGES English					

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
Alan F. Niles WaterFurnace International 3926 Vernhardson Street Gig Harbor, WA 98332-1055 Tel: (253) 509-0325 Email: alan.niles@waterfurnace.com	1 Design and Economics of Commercial Ground Loop Heat Pump Systems	Intermediate	0920010524	NILES01
HONORARIUM None	LANGUAGES English			
R. Mark Nunnally, P.E. Nunnally & Associates, Inc. 3603 Pine Lane SE, Suite A Birmingham, AL 35242 Tel: (205) 425-0060 Email: mnunnally@nunnallyengineering.com	1 A Designer's Introduction to Commercial Desiccant Systems 2 Desiccant Dehumidification in the Healthcare Setting 3 Desiccant Dehumidification Technologies - When & Where to Apply 4 Designing for Absolute Moisture Control 5 Humidity Control for Commercial Buildings 6 Psychrometrics, Dehumidification Equipments & their Application 7 Understanding the Basics of Psychrometrics 8 Why is it Raining in my Surgery Suite?	Intermediate Intermediate Basic Intermediate Basic Basic Basic Intermediate		
HONORARIUM Domestic presentations - \$300-\$500 Range; International presentations - \$1,000 - \$1,500 Range	LANGUAGES English			
Bjarne W. Olesen, Ph.D. ICIEE-DTU Department of Civil Engineering Niels Koppels Alle DTU, Building 402 Kongens Lyngby DK-2800 Denmark Tel: (454) 525-4117 Email: bwo@byg.dtu.dk	1 Application of Radiant Heating and Cooling Systems in Buildings 2 Are women feeling colder than men in air-conditioning buildings 3 Can we take into account diversity when specifying requirements for the indoor environment? 4 How to meet the ventilation required in international standard in an energy efficient way 5 Indoor Environment - Health, Comfort & Productivity 6 International Standards for the Indoor Environment - Where are we and do they apply worldwide? 7 The European Approach to Decrease Energy Consumption in Buildings 8 The influence of occupant behaviour on indoor environment and energy use in buildings	Basic/Interm Basic Basic Basic/Interm Basic/Interm Basic/Interm Basic Basic/Interm	0920005564 0920005411	Olesen02 Olesen01
HONORARIUM	LANGUAGES English German Danish			

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
Raymond E. Patenaude, P.E. Holmes Engineering Group, LLC 1117 Pinellas Bayway S. Apt. 404 Tierra Verde, FL 33715 Tel: (727) 369-0881 Email: ray@theholmesagency.com	1	Fundamentals of Building Envelopes and Humidity Control in Hot & Humid Climates		
	2	Fundamentals of Building Envelopes in Hot & Humid Climates		
	3	Humidity Control in Buildings		
HONORARIUM None	LANGUAGES English			
John Peterson, P.E. HP/EYP 6712 Allegheny Avenue Takoma Park, MD 20912 Tel: (202) 731-5835 Email: jpeterson@gdcm.biz	1	Comparison of Data Center Classes on Energy Use		
	2	Lake and Sea Water Cooling Projects		
	3	River and Lake Cooling Considerations for Critical Facilities		
	4	Warmer Weather Effects on Data Center Design		
HONORARIUM None	LANGUAGES English		0920002630	PETERSON01
Thomas H. Phoenix, P.E., FASHRAE Moser Mayer Phoenix Associates 328 E. Market St Suite 200 Greensboro, NC 27401 Tel: 336.232.5755 Email: tphoenix@clarkpatterson.com	1	Improving Building Performance		
	2	Passion and Performance		
	3	The Value of ASHRAE's bEQ		
HONORARIUM None	LANGUAGES English			
Douglas T. Reindl, Ph.D., P.E. University of Wisconsin-Madison 432 North Lake Street Madison, WI 53706 Tel: (608) 262-6381 Email: dreindl@wisc.edu	1	An Introduction to Ammonia Refrigeration Systems		
	2	ASHRAE Standard 15- A Review and Update		
	3	Refrigerant Safety - Inside and Outside the Machinery Room		
	4	Understanding Safety Relief Systems		
HONORARIUM None	LANGUAGES English		0920014344	REINDL01
			0920014345	REINDL02

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
Richard H. Rooley Project Management Partnership Greenways Church Lane Stoke Poges,Bucks SL2 4PB UNITED KINGDOM Tel: (44) 1753-648040 Email: richard@rooley.com	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		
HONORARIUM	LANGUAGES			
None	English			
Greg Scrivener Cold Dynamics 10060 Jasper Ave Tower 1, Suite 2020 EdmontonAB T5J 3R8 Canada Tel: (306) 230-5429 Email: greg.scrivener@colddynamics.com	1 Canadian Refrigeration Safety Code	Basic/Interm		
	2 CO2 Refrigeration and Heat Pumping	Intermediate		
	3 Refrigeration Energy Essentials	Intermediate		
HONORARIUM	LANGUAGES			
None	English			
Chandra Sekhar, Ph.D. National University of Singapore Dept. of Building 4 Architecture Drive Singapore, 117566 SINGAPORE Tel: (65) 65163479 Email: bdgscs@nus.edu.sg	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 Decoupled Ventilation Strategies for Enhanced IAQ – “Demand Cooling” and “Demand Ventilation”	Basic/Interm		
	4 Emerging HVAC technologies for energy efficient healthy buildings in hot and humid climates - 2 hours	Basic/Interm	0920005406	Sekhar04
	5 Emerging HVAC technologies for energy efficient healthy buildings in hot and humid climates - 3 hours	Interm/Adv	0920005405	Sekhar03
	6 Integrated IAQ and Energy Case Studies in the Tropics	Interm/Adv		
	7 International Ventilation and IAQ Standards	Basic/Interm		
	8 Oversized Air-Conditioning Systems and Overcooled Buildings in Hot & Humid Climates	Basic/Interm/Adv	0920005403	Sekhar01
	9 Ventilation, IAQ and Energy Issues in Hot Humid Climates – Past, Present and Future	Basic/Interm		
HONORARIUM	LANGUAGES			
None	English			

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
Gordon P. Sharp Aircuity, Inc. 39 Chapel Street Newton, MA 02458-1010 Tel: (617) 641-8821 Email: gsharp@aircuity.com	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		
	5 New Approaches to Slash Building Energy Use and Improve Indoor Environmental Quality	Basic/Interm/Adv		
	6 Slashing Lab and Vivarium Building Energy Use by up to 50%	Basic/Interm/Adv		
HONORARIUM None LANGUAGES English				
Max H. Sherman, Ph.D. Lawrence Berkeley Laboratory 1 Cyclotron Rd MS 90-3074 Berkeley, CA 94720 Tel: (510) 486-4022 Email: mhsherman@lbl.gov	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 The Dark Side of ASHRAE: What is It and Why is It Changing?	Basic/Interm/Adv		
	5 Ventilation: The Once and Future King	Basic/Interm/Adv		
HONORARIUM None LANGUAGES English				
Peter Simmonds, Ph.D. Building and Systems Analytics LLC 4209 via Marina #408 Marina Del Rey CA 90292 Tel: (310) 383-9911 Email: psimmonds11@gmail.com	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		
	6 The Active and Passive Beam Design Guide	Basic/Interm/Adv	0920014347	SIMMONDS03
HONORARIUM None LANGUAGES English				

NAME		TOPICS	TOPIC CLASS	GBCI	AIA
Dr. Rajinder Singh Pusa Institute of Technology 24/24 - B Tilak Nagar New Delhi 110018 India Tel: +91 9868246628 Email: rajindersingh1102@gmail.com		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		
HONORARIUM	LANGUAGES				
\$500	English				
<hr/>					
Henry H. Slack, P.E. Environmental Protection Agency Region 4 61 Forsyth Street SW Suite #9T25 Atlanta,GA 30303 Tel: (404) 562-9143 Email: slack.henry@epa.gov		1 After the Mold Rush: Solving Mold Problems	Basic		
		2 Catching Your Breath; Is Your Outside Air Always Safe to Breathe?	Basic		
		3 Fixing the Great Indoors: HVAC and Indoor Air Quality	Basic		
		4 How Can Climate Change Impact Indoor Air Health?	Basic		
		5 Indoor Air Disasters: Stories of Recovery from Katrina, Hurricanes, Wildfires, and Other Disasters	Basic		
		6 Ventilation Research: Is More Air Better for Us	Basic		
HONORARIUM	LANGUAGES				
None	English				
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Wei Sun, P.E. Engsysco, Inc. 1665 Highland Drive Ann Arbor, MI 48108 Tel: (734) 274-4022 Email: wsun@engsysco.com		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		
HONORARIUM	LANGUAGES				
None	English				

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

MDC Systems, LLC
 37 North Valley Road
 3 Station Square - Suite 100
 Paoli, PA 19301
 Tel: (610) 640-9600, X19
 Email: swann@mdcsystems.com

HONORARIUM

Negotiable

LANGUAGES

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

HONORARIUM

None

LANGUAGES

English

- | | | |
|---|--|--------------|
| 1 | 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 |
| 2 | Analytical, Performance & Prescriptive codes & Measure for Life Cycle assessment of Sustainability & Energy Efficiency Projects | Intermediate |
| 3 | Analytical, Performance & Prescriptive Measure for Life Cycle assessment of Facilities Projects | Intermediate |
| 4 | Bridging the Knowledge, Technology and personnel Gap for High Performance Buildings from Concept through Operations | Intermediate |
| 5 | Facing the Realities and Challenges of Urbanization, Smart Cities, Smart Infrastructure & Smart Buildings for Greater Sustainability & Resilience | Intermediate |
| 6 | Framework For Structured Transformation to Future of Facilities to Foster Innovation , Operational Excellence & Resilience -Bridging The Gap In Performance From Concept Though Operations | Intermediate |
| 7 | Leveraging Innovative Technologies For Life-Cycle Operational Efficiency, Improved Indoor Air Quality And Greater Adaptability To Climatic Variations | Intermediate |
| 8 | Operations & Maintenance Measures for Improving Performance of HVAC Systems & chiller plants | 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

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

Terry E. Townsend, P.E.

Townsend Engineering, Inc.
 P.O. Box 23526
 Chattanooga, TN 37422
 Tel: (423) 855-1184
 Email: terry@townsend-engineering.com

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		

HONORARIUM

LANGUAGES

None

English

Paolo Tronville, Ph.D.

Corso Mediterraneo 140
 Torino, TO 10129
 Italy
 Tel: +390110904477
 Email: paolo.tronville@polito.it

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		

HONORARIUM

LANGUAGES

English
 Italian

NAME	TOPICS	TOPIC CLASS	GBCI	AIA	
T. David Underwood, P.Eng. 607-100 Lakeshore Road E Oakville, Ontario L6J 6M9 CANADA Tel: (416) 948-8902 Email: dunderwood@hvacrtdu.com	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		
HONORARIUM None	LANGUAGES English	5	Tips, Tricks, and Techniques of Commissioning	Intermediate	0920010355 UNDERWOOD01

James Vallort Environmental Systems Design Inc 50 Solstice Ct ErieCO 80516 Tel: (630) 846-9574 Email: jvallort@esdglobal.com	1	Achieving a Green Data Center: More than a Good Design Is Needed	Intermediate		
	2	Building Automation System Master Planning - Take Control of Your Facility's Future	Basic		
	3	Critical Facilities New Construction Commissioning and Existing Building Commissioning	Basic		
	4	Intelligent Buildings – Technology is changing what is possible in the built environment	Intermediate	0920010404	JVALLORT01
	5	Primary Heating/Cooling Plant Strategies & How to Maximize the Energy & Financial Savings	Advanced	0920010405	JVALLORT02
HONORARIUM	LANGUAGES English				

Ronald P. Vallort, P.E. Ron Vallort and Associates, Ltd. 663-C Ponte Vedra Blvd. Ponte Vedra BeachFL 32082 Tel: (630) 334-3821 Email: ronvallort@aol.com	1	Construction Features of Refrigerated Spaces with Load Calculations	Intermediate	0920005397	Vallort02
	2	Construction Features of Refrigerated Warehouses	Intermediate		
	3	Refrigeration and the Cold Chain in the Future (Suitable for non-technical and technical audiences)	Basic		
	4	Techniques for Energy Conservation - Commercial and Refrigerated Facilities	Intermediate	0920005396	Vallort01
HONORARIUM Contact lecturer	LANGUAGES English				

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
R. Vijayakumar, Ph.D. Aerfil, LLC P.O. Box 41 Liverpool, NY 13088 Tel: (315) 506-6883 Email: vijay@aerfil.com	1	Basics of Cleanroom Design		
	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	Interm/Adv	
	9	Introduction to Particle Mechanics	Advanced	
	10	Particle measurement for IAQ and Cleanrooms - What are you really measuring?	Basic/Interm	
	11	Testing High Efficiency Filters	Basic/Interm	
HONORARIUM None	LANGUAGES English			
Timothy G. Wentz University of Nebraska-Lincoln 8012 Dougan Circle LincolnNE 68516 Tel: (402)-770-3973 Email: tim.wentz@windstream.net	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	
HONORARIUM 	LANGUAGES 			
Ronald J. Wilkinson, P.E. 2601 W. Manor Place Apt. B523 Seattle, WA 98199 Tel: 206-602-4460 Email: Rwilk99@gmail.com	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	LEED and ASHRAE Cx and Automated Fault Diagnosis	Advanced	0920005465 Wilkinson05
	6	Make the OPR, BOD and Systems Manual Work for You	Intermediate	0920005467 Wilkinson03
	7	Ten Items to Watch Out for: A Meta Study of Three LEED ID&C Projects in NYC High-rise Buildings	Basic	0920005466 Wilkinson04
	8	Whats wrong with this picture?	Basic	0920005464 Wilkinson06
HONORARIUM Variable - Contact speaker (\$200 – 1 hour, \$1200 – 1 day seminar)	LANGUAGES English			

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
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Verle A. Williams, P.E.

Utility Services Unlimited
 8975 Lawrence Welk Drive
 Spc 459
 Escondido, CA 92026
 Tel: 858-242-7296
 Email: verleawilliams@gmail.com

1	"Virtual " Central Chiller Plant	Advanced		
2	Automatic Controls, Basics to Commissioning	Advanced		
3	Central Chiller Plants Turn up Gold	Advanced		
4	Improving Energy Efficiency in K-12 Schools-District Wide	Advanced		
5	Using Your Control System to aid in Commissioning Central Plants & Complex HVAC Systems	Advanced		

HONORARIUM

LANGUAGES

None

English

Gildardo Yanez, P.E.

Engineer
 Planta Las Cruces #2
 Electra
 Tlalnepantla, 54080
 MEXICO
 Tel: (52) 53 97 26 76
 Email: ingeniero@prodigy.com.mx

1	Cleaning a Refrigeration System After a Compressor Burnout	Intermediate		
2	Refrigeration Compressor Mechanical Failures	Intermediate		

HONORARIUM

LANGUAGES

None

English
 Spanish

Douglas F. Zentz

Ferris State University
 20616 Madison Avenue
 Big Rapids, MI 49307-9755
 Tel: (231) 591-3052
 Email: zentzd@ferris.edu

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		

HONORARIUM

LANGUAGES

None

English

NAME	TOPICS	TOPIC CLASS	GBCI	AIA
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Zhiqiang (John) Zhai, Ph.D.

University of Colorado
 1111 Engineering Drive
 UCB 428, ECOT 441
 Boulder, CO 80309
 Tel: (303) 492-4699
 Email: john.zhai@colorado.edu

HONORARIUM

None

LANGUAGES

English
 Chinese

- | | | | | |
|---|---|--------------|--|--|
| 1 | Air Distribution and Contaminant Dispersion in Hospital Operating Rooms | Advanced | | |
| 2 | CFD for Indoor Environment Study | Intermediate | | |
| 3 | Energy Performance and Modeling of Naturally Ventilated Buildings | Basic/Interm | | |
| 4 | Energy Performance of Active Chilled Beam System | Intermediate | | |
| 5 | Identification of Indoor Airborne Contaminant Sources with Inverse Modeling Methods | Advanced | | |
| 6 | Integrated Building Energy and CFD Simulations | Advanced | | |
| 7 | Inverse Design Method for Indoor HVAC System - Creating Comfortable and Healthy Indoor Environments | Advanced | | |
| 8 | Natural Ventilation: Concept and Design | Basic/Interm | | |
| 9 | Role of CFD in Building Design | Basic | | |

Randal S. Zimmerman

Titus
 605 Shiloh Rd
 Plano, TX 75074
 Tel: (972) 212-4811
 Email: zimmerman@titus-hvac.com

HONORARIUM

LANGUAGES

English

- | | | | | |
|---|--------------------------|-------|--|--|
| 1 | Displacement Ventilation | Basic | | |
| 2 | General Air Distribution | Basic | | |
| 3 | Sound Advice | Basic | | |
| 4 | Terminal Unit Technology | Basic | | |