

*IMPROVING THE QUALITY
OF LIFE THRU HVAC*

**18th Chapters Regional
Conference**

August 21-22, 2015

New World Hotel, Makati City, Philippines



LECTURERS



COOL THERMAL ENERGY STORAGE IN THE ERA OF SUSTAINABILITY DR. WILLIAM P. BAHNFLETH, PhD, PE

Dr. Bahnfleth is Professor and Director of the Indoor Environment Center in the Department of Architectural Engineering at the Pennsylvania State University (Penn State) in University Park, PA, where he has been employed since 1994. Previously, he was a Senior Consultant for ZBA, Inc. in Cincinnati, OH and a Principal Investigator at the U.S. Army Construction Engineering Research Laboratory in Champaign, IL. He holds BS, MS, and PhD degrees in Mechanical Engineering from the University of Illinois, where he also earned an undergraduate degree in music (pipe organ performance), and is a registered professional engineer. He is the author or co-author of more than 100 technical papers and 11 books and book chapters. He consults regularly on the design of chilled water thermal energy storage systems and has been involved in more than 20 projects worldwide.

Dr. Bahnfleth is a fellow of both ASHRAE and the American Society of Mechanical Engineers (ASME) and is also a member of the International Society for Indoor Air Quality and Climate (ISIAQ), the International Building Performance Simulation Association (IBPSA), Sigma Xi, the American Society for Engineering Education (ASEE), and the Society of Building Science Educators (SBSE). He has served ASHRAE in a variety of capacities, including Student Branch Advisor, Chapter Governor, Technical Committee and Standing Committee Chair, and as Director-at-Large, Vice President, Treasurer, and 2013-14 Society President. He is the recipient of a 1st place ASHRAE Technology Award, Transactions Paper Award, and Distinguished Service and Exceptional Service Awards.



WHY BUILDINGS MATTER AND THE ROLE OF ASHRAE 90.1 R. CHRISTOPHER MATHIS

Mr. Mathis serves as president of Mathis Consulting Company and has spent the past 30 years focusing on how buildings and building products perform – from energy efficiency to code compliance to sustainability and long-term performance durability.

Chris has published a variety of technical papers on topics including: advanced test methods for insulation materials and wall systems; daylighting design and assessment techniques; off-peak cooling techniques for commercial office buildings; new residential and commercial energy codes; and metrics for environmentally preferable products. He has conducted workshops for thousands of builders, architects,

engineers, building officials, policy makers and others in the building industry on a variety of building science topics.

He is a 30-year member of ASHRAE, serving on numerous committees and in ASHRAE Standards development. He served for 12 years on SSPC 90.1 helping to develop the nation's model energy code for commercial buildings. He currently serves on SPPC 90.2 and is the Energy Consultant to SSPC 189.1 and the Chapter Technology Transfer Committee (CTTC). Chris has been selected four times to serve on the International Energy Conservation Code Committee, selected for the ICC Sustainable Building Technology Committee where he helped to develop the first drafts of the International Green Construction Code (IGCC).

Chris received a Master of Science in Architecture Studies from MIT where his graduate work focused on energy use in buildings. Chris is also an on-going student of about 90 million years of sustainability and building science through his activities as a beekeeper. He lives and works near the farm he grew up on in the beautiful mountains of Western North Carolina.



ASHRAE'S ROLE IN THE DEVELOPMENT OF THE PHILIPPINES' GREEN BUILDING CODE

AR. EMELITO C. PUNSALAN

Mr. Punsalan is an architect, environmental planner and green building specialist with over 20 years of planning, design and construction experience. He is a member of the United Architects of the Philippines, ASHRAE Philippines Chapter and the Philippine Green Building Initiative where he is currently Vice President for Technical. He co-authored the GREEN Building Rating System of PGBI and is part of the training seminar faculty. He is involved in the green building assessment of a number of building projects, most notably the Hyundai Logistics Center in Laguna, Hyundai Dealerships and the National Museum of

Natural History.

He is also a technical consultant for the International Finance Corporation (IFC), a member of the World Bank Group that has worked on Green Building ordinance of Mandaluyong City and most recently, the Philippine Green Building Code under the Department of Public Works and Highways. He has also participated in the first Building Energy Quotient (BEQ) assessment of an existing building in the Philippines, and in Asia.

PROGRAM

| DAY/TIME | ACTIVITY | LOCATION | NOTE | PACKAGE |
|-----------------|---|-------------------------------------|---------------------------|---------|
| Day (-1) | Wednesday, 19th August 2015 | | | |
| 16:00-21:00 | Student Registration | Asian Institute of Management | 5 | F |
| 18:00-21:00 | Students' Acquaintance Party | Asian Institute of Management | 5 | F |
| Day (0) | Thursday, 20th August 2015 | | | |
| 07:30-1800 | Student Program : Plant Tour | Philippine Arena & SMB Polo Brewery | 5 | F |
| 16:00-21:00 | 18th CRC Registration Open | Press Room 6 - 4F | 1 | B C |
| 18:00-21:00 | 18th CRC Welcome Cocktails | Poolside, 4F | 1 | B C |
| Day 1 | Friday, 21st August 2015 | | | |
| 09:30-11:30 | Student Program : Technical & Personal Development Seminars | Asian Institute of Management | 5 | F |
| 07:30-08:30 | 18th CRC Registration Opens | Ballroom 1 Foyer, 2F | 1 | A B C |
| 08:30-09:00 | Opening Ceremony | Ballroom 2 & 3, 2F | 1 | A B C F |
| 09:00-10:15 | Technical Seminar | Ballroom 2 & 3, 2F | 1 | A B C |
| 10:15-10:30 | Coffee/Tea Break and Group Photo | Ballroom 2 & 3, 2F | 1 | A B C |
| 10:30-12:15 | Cont. Technical Seminar | Ballroom 2 & 3, 2F | 1 | A B C |
| 12:30-13:50 | Presidential Luncheon | Ballroom 2 & 3, 2F | 2 | B C D |
| 14:00-15:00 | Business Session No. 1 | Ballroom 1, 2F | 2 | B C |
| 15:00-15:15 | Coffee/Tea Break | Ballroom 1, 2F | 2 | B C |
| 15:15-17:00 | Cont. Business Session No. 1 | Ballroom 1, 2F | 2 | B C |
| 17:00-18:00 | Orientation & Caucus Session, Delegates & Alternates | Gallery 1, 2F | 3 | C |
| | APCBE Steering Committee | Balcony 2, 2F | 6 | B C |
| 18:45-22:30 | Banquet Dinner | Ballroom, 2F | 1 | B C E |
| Day 2 | Saturday, 22nd August 2015 | | | |
| 07:00-12:00 | ICT for RAL and R13 MP Chairs | Ballroom 1, 2F | 2 | B C |
| 07:30-08:30 | Executive Session & Caucus, Delegates & Alternates | Gallery 1, GF | 3 | C |
| 07:00-12:00 | Research Promotion (RP) Workshop | Pressroom 5, 2F | 2 | B C |
| 08:00-10:00 | Grassroots Government Advocacy Committee (GGAC) Workshop | Pressroom 1, 4F | 2 | B C |
| 08:00-10:00 | Young Engineers in ASHRAE (YEA) Workshop | Pressroom 2, 4F | 2 | B C |
| 9:30-10:30 | Coffee/Tea Break | | 2 | B C |
| 8:00-10:00 | Chapter Technology Transfer (CTTC) Workshop | Pressroom 4, 4F | 2 | B C |
| 10:00-12:00 | Student Activities (SA) Workshop | Pressroom 4, 4F | 2 | B C |
| 10:00-12:00 | Refrigeration Workshop | Pressroom 1, 4F | 2 | B C |
| 10:00-12:00 | Electronic Communication & Website (ECW) Workshop | Pressroom 2, 4F | 2 | B C |
| 12:00-13:40 | Host Chapter Luncheon & Awards Presentation | Ballroom 2, 2F | 2 | B C |
| 14:40-14:30 | Chapter Operation & PAOE Workshop | Ballroom 1, 2F | 2 | B C |
| 14:30-15:15 | Business Session No. 2 | Ballroom 1, 2F | 2 | B C |
| 15:15-15:30 | Coffee/Tea Break | Ballroom 1, 2F | 2 | B C |
| 15:30-17:30 | Cont. Business Session No. 2 | Ballroom 1, 2F | 2 | B C |
| 17:30-18:00 | CRC Review Meeting | Gallery, 1F | 4 | C |
| Day 3 | Sunday, 23rd August 2015 | | | |
| 08:00-11:00 | RXIII Regional Planning Meeting 1 | Ballroom 1, 2F | 2 | B C |
| NOTE | AUDIENCE | | | |
| 1 | Open to all members and other participants | | | |
| 2 | Attended by Society Officers, Delegates, Alternates, and Chapter & Regional Officers Only | | | |
| 3 | Attended by Delegates & Alternates within Region XIII Only | | | |
| 4 | Attended by Society Officers, Regional Officers and Host Committee Only | | | |
| 5 | Open to Students Members only | | | |
| 6 | APCBE Steering Committee Members only | | | |
| PACKAGE | INCLUSIONS | FEE (ON OR BEFORE 08/05/15) | FEE AFTER 08/05/15 | |
| A | Includes Registration and Technical Seminar | US\$ 160.00 | US\$ 190.00 | |
| B | Includes Registration, Technical Seminar, Business Session 1 & 2, Regional Planning Meeting 1, Presidential Luncheon, Orientation & Caucus Session (Delegates & Alternates Only), Banquet Dinner, Executive Session & Caucus (Delegates & Alternates Only), Committee Workshops, Host Chapter Luncheon & Awards Presentation. | US\$ 340.00 | US\$ 400.00 | |
| C | Includes all of Package A and B | US\$ 430.00 | US\$ 500.00 | |
| D | Presidential Luncheon Only on the 21 st August 2015 (Friday) | US\$ 50.00 | US\$ 70.00 | |
| E | Banquet Dinner Only on the 21st August 2015 (Friday) | US\$ 70.00 | US\$ 100.00 | |
| F | STUDENT PROGRAM (Includes Registration, Leadership and Technical Seminar, Plant tour and Banquet Dinner) | US\$ 140.00 | US\$ 160.00 | |



REGISTRATION FORM AND ORGANIZING COMMITTEE

ASHRAE REGION XIII 18th CHAPTERS REGIONAL CONFERENCE 2015

21 - 22 AUGUST 2015

NEW WORLD HOTEL MAKATI CITY PHILIPPINES

| | | | |
|--|---------|-------------|--|
| NAME | ID NO.* | COMP/SPOUSE | |
| COMPANY | | | |
| ADDRESS | | | |
| PHONE/S | EMAIL | FAX | |
| CHAPTER | REGION | POSITION | |
| Please tick off membership type: | | | |
| <input type="checkbox"/> Society Officer <input type="checkbox"/> Regional Officer <input type="checkbox"/> Delegate <input type="checkbox"/> Alternate <input type="checkbox"/> Fellow <input type="checkbox"/> Member <input type="checkbox"/> Associate <input type="checkbox"/> Student <input type="checkbox"/> Invited Guest | | | |

* - Your ASHRAE MEMBER ID Number

| PACKAGE SELECTION | INCLUSIONS | FEE (ON OR BEFORE 08/05/15) | FEE AFTER 08/05/15 |
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Refund Policy: No refunds will be allowed, but replacement will be acceptable if notified in advance.

Registration & Payment Policies: 1) Credit Card will not be accepted. 2) Registration of Student Package must be made only via Student Activities Chair c/o Dr. Manny Belino at email mcbelino@mapua.edu.ph.

Payment:

- 1) Wire transfer payment preferable, addressed to: Account Name: ASHRAE PHILIPPINES CHAPTER, US\$ Account Number #3854-0041-65, Swift Code: BOPOPHMM, Name of Bank: Bank of the Philippine Islands (BPI), Boni Avenue, Mandaluyong City, Philippines 1552
- 2) Please email scanned payment receipt to: danigdu@yahoo.com, cc: manny.punsalan@lrpunsalan.com and shernan@krugerph.net
- 3) Cash in Philippine Peso (PhP) equivalent or in US Dollars.

| COMMITTEE | CHAIRMAN | EMAIL | MOBILE |
|----------------------------------|-----------------------------|--|----------------|
| General Chair | Emmanuel Punsalan | ecp899@gmail.com | +63922-8782699 |
| Vice-Chair | Shernan Esmenda | shernan@krugerph.net | +63917-6274269 |
| Honorary Chair | David Farala | davefarala@yahoo.com | +63918-9026343 |
| Secretary | Jun Davantes | jundavantes@gmail.com | +63918-9226360 |
| Attendance & Program Chair | Jaime Jajay Cruz | jay_cruz226@yahoo.com | +63917-5040608 |
| Accommodations Chair | Gio Mendoza | gio@bryair.com.ph | +63917-8287079 |
| Hospitality Chair | Francis Roberto Guevara | francisg@ppiengineers.com | +63917-8518235 |
| Finance/Treasurer | Danilo Duya | danigdu@yahoo.com | +63920-9068485 |
| Reception and Registration Chair | Jojo Castro | jocas1006@gmail.com | +63917-8864566 |
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| Technology | Rico Mercado | rtm.mes@gmail.com | |
| Technical Presentations | Cesar Luis Lim | cesarluis.lim@gmail.com | +63917-8547618 |
| Student Activities | Dr. Manuel Belino | mcbelino@mapua.edu.ph | +63916-4884686 |
| Entertainment | President of Student Units | | |
| Decorations | Officers from Student Units | | |
| Socials | Jim Bata | jl бата@gmail.com | +63917-3227788 |
| Banquet | Joselito David | litodavid8@gmail.com | +63918-9122526 |
| Transportation | Charlie Borbe | charlie.borbe@gmail.com | +63917-5879000 |