

## **58th Annual Conference**

September 28 – October 1, 2008 Baltimore, Maryland



**CONFERENCE PROGRAM** 





## Your Students Strive for a 4.0. **Shouldn't Your Contractor?**

We're dedicated to meeting your goals with our proven programs and processes. We'll deliver the solution that helps you to stop worrying about project demands and reduces your backlog.

#### Customer satisfaction is the measure of our success.

We provide responsive performance-based contracting solutions that support large facilities and infrastructures by managing construction projects focused on renovation and rehabilitation.

We're a pioneer and expert in Job Order Contracting (JOC) programs. By using this proven process, we reduce facility management teams' and owners' stress around project back log, deadlines and resource constraints, allowing them to focus on mission critical activities.



Earned an average of 3.74 out of 4.0 on customer satisfaction surveys. 92% of our customers gave us ratings of 'above average' to 'outstanding'.

Delivering Solutions, Building Relationships.

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American University



University of Maryland Eastern Shore



The Catholic University of America

"The annual ERAPPA meeting provides me with a great opportunity to network with my peers. I continually meet new people who have varied experiences in the facilities field and are open to sharing their expertise and lessons learned."

FRED KLEE, Emeritus Member



University of Maryland College Park



## **ERAPPA President's Message**



Greetings ERAPPA Colleagues,

Your view of Baltimore's Harbor will be much different from that of Francis Scott Key when he observed the British bombardment of Fort McHenry while being detained on one of the British ships. I can promise no bombardments, no detainments and your time well spent. Welcome to Baltimore and ERAPPA's 58th Annual Meeting.

The theme of this year's meeting, "ERAPPA Your Key To Success" connotes a range of meanings to consider as we take advantage of the education program, the insight and expertise of our business partners and colleagues and the many opportunities Baltimore has to offer.

Whether you tour the USS Torsk, visit Babe Ruth's house, the B&O Railroad Museum or visit the site of one of the first skirmishes of the civil war between Baltimore residents and a column of Union soldiers you will experience a city rich in history and fun.

We assemble in Baltimore this year with ERAPPA colleagues to learn from each other, to recognize contributions and achievements, to visit or re-visit an interesting city and to see old friends. The opportunities for learning, recognition, fellowship and fun abound this year in Baltimore's Inner Harbor.

The MD/DC Host Committee has developed a wide range of exceptional educational and networking opportunities along with entertainment that takes advantage of Baltimore's unique setting and history. Please express your thanks to the Host Committee when you see them at the hotel, on the golf course, at the Aquarium, at one of the dozens of educational sessions or at the Awards Banquet. They have worked hard to craft a diverse set of activities from which to select.

The "Key" in this year's theme could mean something that enables access, an essential structural element, a tool to understand images on a drawing or any of the several other definitions one might imagine. The power of this theme and this meeting is that you will find a key to your success whether it be individual, institutional or environmental. The keys will come in different forms and may be found on the harbor cruise and crab feast, in an educational session, the exhibit hall or in a discussion with a colleague.

As with most anything, you get out of an ERAPPA meeting benefits equal to what you put in. The ERAPPA Board encourages you to engage in the learning and networking opportunities in ways that you and your colleagues achieve maximum benefits. The Board and I thank you for adding to the experience of this meeting and our support of ERAPPA.

Willy Sutter President, ERAPPA Facilities and Administrative Services American University



American University

# Conference Co-Chairs' Message

On behalf of the MD/DC APPA Chapter and Host Committee, it is our honor and privilege to welcome you to the 2008 ERAPPA Annual Meeting and Educational Conference. As co-chairs of the Host Committee, we assure you that this educational conference will be an enjoyable and meaningful experience.

The Eastern Region represents more than 800 campuses and institutions from Newfoundland to Maryland, making up close to one third of APPA's membership. Many of the benefits we enjoy as ERAPPA members culminate at our annual meetings, and this year's program is certain to meet your expectations.

The work accomplished by the host committee members these past three years mirrors the dedication and commitment of all ERAPPA's members. We are honored to have worked with such a dedicated group in planning this conference. From education, professional development, information sharing, exposure to new products and services, to simply being around people who share many of the same problems and concerns, this year in Baltimore promises to deliver.

We ask that attendees make a special effort to express to our business partners our appreciation of their participation and support. Our experience is enhanced by their support of ERAPPA conferences both past and present. From exhibitions to sponsoring events, the business partners work extremely hard at making the experience here worthwhile. Please show your respect and consideration by visiting and spending quality time with the business partners. They are here to make your work life more successful with a variety of support services and products.

If this is your first time attending an ERAPPA conference, we extend a special welcome and ask that you make the most of this enjoyable opportunity. Effective mentorship can be its own reward as well as being a key to success for both parties. With this in mind, we would like to thank those who may have encouraged your participation.

ERAPPA 2008, Your Key to Success... Welcome to Baltimore!

Sheri Vucci Co-Chair, Host Committee Office of Facilities Engineering and Operations Smithsonian Institution



Sheri Vucci

Kevin Mann Co-Chair, Host Committee Physical Plant Salisbury University



Kevin Mann



Salisbury University



St. Mary's College of Maryland



University of Maryland Baltimore

## Schedule at a Glance

#### FRIDAY, SEPTEMBER 26

8:00 a.m. - 5:00 p.m. ERAPPA Board Meeting *Dover A* 

6:00 p.m. - 10:00 p.m. ERAPPA Board, ERAPPA Committees, 2008 and 2009 Host Committees Dinner Laurel C/D

#### SATURDAY, SEPTEMBER 27

8:00 a.m. - 12:00 p.m. ERAPPA Board and Committee Meetings

1:00 p.m. - 5:30 p.m. Registration Grand Ballroom Registration

5:30 p.m. - 7:30 p.m. President's Reception (by invitation only) Laurel

"ERAPPA is an excellent mid-size conference. You get a good balance between a group of friends and get ideas from new people."

MARIO BOUCHARD, Director, Physical Resources Service, University of Ottawa

#### SUNDAY, SEPTEMBER 28

6:00 a.m. - 3:00 p.m. Golf Tournament Greystone Golf Course

9:00 a.m. - 8:00 p.m.

Registration

Grand Ballroom Foyer

9:00 am - 5:00 p.m. *(hours of operation)* 

Spouse Guest Tour – National Aquarium in Baltimore

(at your leisure)

12:30 p.m. - 5:00 p.m. Exhibit Hall Move In/Set up *Grand Ballroom* 

12:00 p.m. - 4:30 p.m. Tour of the University of Maryland Baltimore and the M&T Bank Stadium

5:30 p.m. - 6:30 p.m. First Time Attendee Reception Laurel

6:30 p.m. - 8:30 p.m. Exhibit Hall Grand Opening Reception Grand Ballroom

#### MONDAY, SEPTEMBER 29

6:30 a.m. - 4:00 p.m. Registration Grand Ballroom Foyer

6:45 a.m. - 7:45 a.m.

Breakfast

Harborside Ballroom

7:45 a.m. - 8:15 a.m. Welcoming Remarks Harborside Ballroom

8:15 a.m. - 9:15 a.m. Keynote Presentation: Dr. Ben Carson Harborside Ballroom

8:00 a.m. - 3:30 p.m. Spouse Guest Tour -Annapolis Tour

9:15 a.m. - 10:30 a.m. Exhibit Hall Open/Networking

& Refreshment Break

Grand Ballroom

10:30 a.m. - 11:30 a.m. Education Session I Various Rooms

11:30 a.m. - 1:30 p.m.

Exhibit Hall Open/Networking

& Lunch

Grand Ballroom

1:30 p.m. - 2:30 p.m. Education Session II Various Rooms

2:30 p.m. - 3:30 p.m.

Exhibit Hall Open/Networking

& Refreshment Break

Grand Ballroom

3:30 p.m. - 4:30 p.m. Education Session III

Various Rooms

## Schedule at a Glance

4:30 p.m. - 5:30 p.m. Local Chapter Meetings Atlantic Provinces - Kent A DVAPPA - Kent B

KAPPA - Kent C

NJAPPA - Essex A NYAPPA - Essex B

NNECAPPA - Essex C

OAPPA - Laurel A OCFMA - Laurel B

Ouebec - Laurel C

MD-DCAPPA - Harborside D SNEAPPA - Harborside E

6:30 p.m. - 10:00 p.m. Crab Feast Harbor Cruise

Networking Reception/Dinner

Board Lady Baltimore at Pier 5 at 6:30pm

Depart Pier 5 at 7pm

#### TUESDAY, **SEPTEMBER 30**

6:30 a.m. - 4:00 p.m.

Registration

Grand Ballroom Foyer

6:45 a.m. - 8:15 a.m.

Exhibit Hall Open/Networking

& Breakfast

Grand Ballroom

8:00 a.m. - 8:15 a.m. Welcoming Remarks

Harborside Ballroom

8:15 a.m. - 9:30 a.m. Plenary Presentation:

John Waters

Harborside Ballroom

8:30 a.m. - 3:30 p.m.

Spouse Guest Tour - Ride the Ducks/B&O Railroad Museum/

Fort McHenry

9:30 a.m. - 10:30 a.m. **Education Session IV** 

Various Rooms

10:30 a.m. - 11:30 a.m.

Exhibit Hall Open/Networking

& Refreshment Break

Grand Ballroom

11:30 a.m. – 4:00 p.m.

Exhibit Hall Tear Down/

Move Out

Grand Ballroom

11:30 a.m. - 12:30 p.m.

Education Session V

Various Rooms

12:30 p.m. - 2:15 p.m.

Lunch & Annual Business

Meeting

Harborside Ballroom

2:15 p.m. - 3:15 p.m.

Education Session VI

Various Rooms

3:15 p.m. - 3:30 p.m.

Refreshment Break

Harborside Ballroom Foyer

3:30 p.m. - 4:30 p.m. Education Session VII

Various Rooms

5:45 p.m. - 6:30 p.m.

Awards Reception

Harborside Ballroom Foyer

6:30 p.m. - 7:30 p.m.

Awards Presentation

Harborside Ballroom

7:30 p.m. - 12:00 a.m.

Awards Banquet & Dance

Harborside Ballroom

#### WEDNESDAY, **OCTOBER 1**

7:00 a.m. - 8:00 a.m.

Walk/Run through downtown Baltimore and along the Inner

Harbor

Baltimore Marriott Waterfront

Hotel Lobby

7:00 a.m. - 10:00 a.m.

Breakfast

Harborside Salon A

9:00 a.m. - 11:00 a.m.

Host Committees

2008/2009/2010 "Lessons

Learned" Meeting

Harborside Salon B

11:00 a.m. - 2:00 p.m.

ERAPPA Board of Directors:

Newly Elected

Location Dover B

SPONSORED BY:



In an effort to preserve the environment, water stations will be located throughout the conference area.

Please use your ERAPPA water bottle to fill up as often as you like.

SPONSORED BY:



## **Host Committee**

#### **CONFERENCE CO-CHAIRS**

**Kevin Mann** 

Salisbury University

Sheri Vucci

Smithsonian Institution

#### **SUB-COMMITTEES**

#### **Business Partners**

Nancy Yeroshefsky (Co-Chair)

University of Maryland College Park

**Kevin Mann (Co-Chair)** 

Salisbury University

Paula Stefancin

RMF Engineering, Inc.

Oleksa Breslawec

Sebesta Blomberg

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Michelle Frederick (Chair)

American University

Sheri Vucci

Smithsonian Institution

**Ann Stacey** 

Buchart Horn, Inc.

**Dennis Bohlayer** 

Towson University

Jim Burcham

University of Maryland College Park

Mike Brewer

Muhlenberg College

#### **Entertainment/Special Events/Spousal Program**

Phillip Brown (Co-Chair)

American University

Richard Weil (Co-Chair)

The Catholic University of America

**Derek Thornton** 

St. Mary's College of Maryland

#### Communications, Marketing and Registration

Leon Bivens (Chair)

University of Maryland Eastern Shore

**Paul Mace** 

Wor-Wic Community College

#### **Finance**

John Jensen (Chair)

Stevenson University

**Gary Viola** 

University of Maryland Baltimore

#### **Hotel Arrangements and Food**

**Kevin Mann (Chair)** 

Salisbury University

Sheri Vucci

Smithsonian Institution

**Gary Viola** 

University of Maryland Baltimore

#### Golf

John Jensen (Chair)

Stevenson University

**Dennis Bohlayer** 

Towson University

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Nancy Yeroshefsky

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#### **Conference Planner**

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## **Keynote Speaker**



Dr. Ben Carson

Dr. Ben Carson gives audiences an inspirational look at the philosophy that helped him meet life's obstacles and leap over them. He prescribes his personal formula for success. Carson demonstrates that maintaining discipline and exhibiting good character are at the core of true success on every level – while stressing the importance of using personal success to benefit others as well. Dr. Ben Carson's remarkable journey—from tough inner-city youth to history-making neurosurgeon—celebrates the power we all have to choose to excel and positively influence others.

Ben Carson knows what it means to feel overwhelmed by life. As the son of a single mother in a tough urban neighborhood, Carson was running with the wrong crowd and failing in school – feeling as though he had no way out. He could easily have spiraled downward, but something happened – and he chose another path. Driven by a passion for science and helping those less fortunate, Carson pursued medicine, an unlikely aspiration for someone with his limited resources. However, his determination prevailed, and he became one of the most respected neurosurgeons in the world – separating Siamese twins and performing other miracles.

Changing the Future: Carson's riveting presentation inspires audiences to take charge of their lives and DREAM BIG, no matter what obstacles confront them.

Once teased as "the dumbest" kid in his class, Carson overcame the odds on the mean city streets through education and especially, reading. Today, the recipient of more than 40 honorary university degrees, he helps top students in more than a dozen states realize their highest possibilities through his foundation, the Carson Scholars Fund. He is also an advocate for meaningful health care reform and solutions that increase healthy lifestyles. His message motivates other professional, business and civic leaders to change lives by enlarging their sphere of influence. In 2008 Carson received the Medal of Freedom – the highest civil award available.

Carson is the author of four books, Gifted Hands, THINK BIG, The Big Picture, and Take the Risk: Learning to Identify, Choose and Live with Acceptable Risk.



## **Plenary Speaker**

Born in Baltimore, MD in 1946, John Waters was drawn to movies at an early age. He subscribed to Variety at the age of twelve and began his career giving puppet shows for children's birthday parties. As a teen-ager, Waters began making 8-mm underground movies influenced by the likes of Jean-Luc Godard, Walt Disney, Andy Warhol and Ingmar Bergman. Using Baltimore, which he fondly dubbed the "Hairdo Capitol of the World," as the setting for all his films, Waters assembled a cast of ensemble players, mostly native Baltimoreans and friends of long standing. Waters also established lasting relationships with key production people who help give his films that trademark Waters "look."

In Hairspray (1988), Waters created "an almost big-budget comedy extravaganza about star-struck teen-age celebrities in 1962, their stage mothers and their quest for mental health." The film was a box office and critical success. Hairspray was made into a successful Broadway musical, and then filmed again by director Adam Shankman in 2007. The success of Hairspray brought Waters major Hollywood backing for his next feature, Cry-Baby (1990), a juvenile delinquent musical comedy satire, starring Johnny Depp.

In addition to writing and directing feature films, Waters is the author of five books. He is also a photographer whose work has been shown in galleries all over the world. John Waters' one man spoken-word lecture is performed at colleges, museums, film-festivals and comedy clubs across the United States. Waters is a member of The Academy of Motion Picture Arts and Sciences and is on the Wexner Center International Arts Advisory Council. He is also a member of the boards of The Andy Warhol Foundation and Printed Matter.



John Waters



## **Special Sessions Presenters**

# USING A PROACTIVE STRATEGY TO AVOID INDOOR AIR QUALITY PROBLEMS



Archie M. Barrett, Jr.

ARCHIE M. BARRETT, JR. CIEC, CMC is the Founder and President of Compliance Environmental International, Inc. He currently sits on the Certification Board for the American Indoor Air Quality Council. Mr. Barrett has performed indoor air quality and industrial hygiene investigations for over 20 years. He is a Board Certified Indoor Environmental Consultant by the American Indoor Air Quality Council



Timothy Duffy

TIMOTHY DUFFY CIH, PE is currently the Senior Engineer for Compliance Environmental in Glen Burnie, MD. He has performed indoor air quality, industrial and public health investigations since 1978. He is certified in the Comprehensive Practice of Industrial Hygiene by the American Board of Industrial Hygiene and is a licensed environmental engineer.



Stephen Kisielnicki

STEPHEN KISIELNICKI, CCS/CSI has 29 years of building envelope industry experience, including 15 years as a Senior Project Manager at Gale Associates, Inc. Mr. Kisielnicki is responsible for investigation, evaluation, and design of building envelope (roof, wall, window, waterproofing) systems. His broad-based work experience in the roofing/waterproofing industry provides invaluable insight and advice to clients concerning feasibility and selection of waterproofing systems, value engineering and selection of contractors, construction techniques, and maintenance programs. He has presented to numerous groups, including MD/DC APPA, on various building envelope topics.

## **Special Sessions Presenters**

# SEARCHING FOR EXCELLENCE USING APPA'S FACILITIES PERFORMANCE INDICATORS



Margaret P. Kinnaman

MARGARET P. KINNAMAN is currently the Director for Business Administration and Support Services within the Facilities Management Division at the University of Maryland, Baltimore. Ms. Kinnaman is responsible for the financial tracking and budgeting for over \$30 million dollars annually and the provision of construction project accounting for over 400 projects annually. Ms. Kinnaman has taken the lead on numerous campuswide special projects; to including creating a campus-wide space management system and chairing a System-wide Capital Renewal Deferred Maintenance Task Force. Maggie has been active in the Association for Higher Education Facilities Officers (APPA) at all levels for the past twenty five years, most recently serving as APPA's International President. She is also Chair of APPA's Strategic Assessment Model (SAM) Task Force as well as Co-Chair of a newly developing Center for Facilities Research. Ms. Kinnaman has contributed numerous articles to APPA's Facilities Manager Magazine and has been a contributing author to two Strategic Assessment Model publications. Additionally, she has presented to audiences all over the United States, Australia and the United Kingdom.



Michael J. Sofield

MICHAEL J. SOFIELD has an extensive facilities management background earned over a 30 year career. As Director of Facilities Planning and Operations for the National Museum of American History, he is responsible for the museums facilities master plan as well as the daily operations of one of the Smithsonian's largest museums. His past positions at the Smithsonian include serving as the Director of the offices of: Physical Plant; Facilities Reliability; and Protection Services. He is APPA's Vice-President for Information and Research where he is responsible for APPA's Facilities Performance Indicators program.

"We often handle similar issues in different ways. I always meet people at the ERAPPA conference that have experienced similar situations and can provide solutions to avoid the need to 'reinvent the wheel.'"

JOHN VUCCI, Associate Director HVAC Systems, University of Maryland College Park

## MONDAY, SEPTEMBER 29, 2008

## ENGAGED EMPLOYEES (EE) Harborside Salon E

## ECONOMICS OF GREEN (EG) Harborside Salon D

#### Session I 10:30 – 11:30 a.m.

#### O&M and System Training Requirements: It's Not Working\*

Howard McKew, RDK Engineers

Going back to the mid-1900's construction specifications have been requiring the contractor to provide O&M manuals that contained pertinent information buried within large volumes of other information. In this computer age-Internet age, the design community needs to abandon their master specification and initiate a 21st century O&M manual compliance based on close communication with the end user formatted into a folder of electronic documents and in sync with the end user's CMMS system. System training requirements, in recent years, has increased significantly, but the contractor follow-thru has fallen short. Today we need to invest in system training specifications and a training facilitator committed to the training success.

#### Who Says Money Doesn't Grow on Trees: The Benefits of Turning Your Campus into and Arboretum

Mike Mastrota, Stephanie DeStefano, Mark Feist & Henry Paul Davis, American University

Over the past 10 years, the grounds of American University have transformed from a typical institutional appearance into an award winning arboretum and public garden. Today, the landscape is reflective of the quality of the institution and is a key asset for promotion and fundraising success. The arboretum serves as a catalyst for incorporating sustainable practices into our daily routines. Through stewardship and careful management, the arboretum compliments the campus sustainability program and broadens the educational experience offered to the university community. This presentation will cover the many benefits the arboretum has brought to American University and specifically the green roof, rain garden and reforestation projects.

#### Session II 1:30 – 2:30 p.m.

## Transformation of Facilities Management with an Intervention Program

John Shenette, Smith College

Facilities Management organizations by definition are organizations with a mission to be innovative with the integration of technology, satisfy customer driven requirements by balancing costs, quality, and to be a leader in dedicated service by showcasing continuous and measurable improvements. Aligning individuals in this environment remains a constant challenge for management. This presentation will outline a process that promotes people as the key to an FM organization and provide an interesting assessment of a 360-degree strategic leadership team alignment. In order to reshape the business, you must transform the staff. This is not an easy task, but one that has tremendous benefits. Combining leadership and culture are the key processes necessary to influence organizational effectiveness.

#### Maximizing the Value of Design Reviews: An Integrated Approach to Link LEED-NC and EB\*

Matthew Judge & Brian Lee, Aramark

The focus on LEED®-NC projects in the marketplace today is extraordinary. This substantial increase in the acceptance and desire for LEED® buildings demonstrates overwhelming acceptance that LEED®-NC has arrived. Green building design has always focused on creating high performance, healthy environments that are financially beneficial. Specifically, the goal must be to incorporate up front planning that supports the building program, LEED®-NC, Operations and LEED®-EB certification alignment. This presentation will demonstrate an integrated and holistic approach to perform a design review that focuses on both the delivery of a high performance designs, healthy building as well as ongoing preparation for green operational practices.

<sup>\*</sup>Presentation approved for AIA/LU & PIE/PDH credits

<sup>\*\*</sup>Presentation qualifies for HSW credit

#### STEWARDSHIP (ST) Kent

# TRANSFORMATION (TR) Laurel A/B

## SPECIAL SESSIONS (SS) Essex

#### A System's Approach to Stewardship – PAASHE's Plan for the Future

Steven Dupes, PAASHE, Jeff Grimm, Kutztown University; and James Kadamus, Siahtlines LLC

Faced with aging facilities and limited capital funding, the Pennsylvania State System of Higher Education (PASSHE) has developed a new strategy to stewarding the 14 campuses with over 900 buildings comprising 26 million gross square feet of space. PASSHE is using a process of performance measurement called "Return on Physical Assets: developed by Sightlines LLC to document the backlog of projects, measure the effectiveness of facilities operations and the impact of capital investment at all campuses. A multi-year capital funding program combined with best practices in preventive maintenance at the campus level will form the system's approach to stewardship.

#### Shedding Light on Long-Term Technology Needs of Institutional Data Center Design

Robert Stein, Integrated Design Group, Inc.

Colleges and Universities are experiencing tremendous growth in all areas of information technology. Expanding data center capacity is vital to maintaining the academic institution's quality on every campus. The challenge facing facilities professionals on campus is to provide a data center that can meet computing needs today as well as into the future while staying within stringent budget restraints. This session will look at the many different information technology uses on campus and define their various facility requirements.

#### **Education Roundtables**

- Facility Managers Who Are Trying to Go Green Can Benefit from Adding New Technologies to Their Toolkits – Ted Woodings, iDocuments
- Commissioning Services for New Construction & Existing Building Facilities – Michael English, Horizon Engineering Associates, LLC
- Sustainability in the Built Environment

   Chris Hodges & Maureen Roskoski,
   Facility Engineering Associates, PC
- Sustainability Considerations in Student Housing Projects – Oleksa P. Breslawec, Sebesta Blomberg & Associates, Inc.
- How Do We Teach the Operation and Use of Our New Sustainable and High Performance Building Systems to Building Users and Maintenance Staff?"

   Mary Ann Gaal, University System of New Hampshire
- Utility Master Planning The Foundation of Sustainability – Joe Martino & Christian Lyhus, Burns & Roe Services Corporation
- Strategies to a Safer Campus Alan Cuteri, STRADA

## Performance Assessment: Gauging Your Success

Elizabeth Clark, Penn State University

This session will be a broad overview of assessment as a tool for performance measurement and its applicability in the facilities field. The presenter will discuss what we can assess in facilities and why it is important. The presenter will examine questions such as "what do we want to know?" and "how is this relevant to our mission?" Finally, the presenter will discuss asking the right questions, targeting an audience, collecting and analyzing the data, reporting the results, implementing changes, and repeating assessments for continued improvement.

## GIS and Facilities: How Not to Reinvent the Wheel

Randall Walsh, Maximus, Inc.

As GIS (Geographic Information System) has moved from a niche application to the mainstream, the key vendors are working toward standards for interoperability. Now is the time to consider how you and your organization will utilize GIS in conjunction with your Facilities Management solution. The presentation will explore what the standards are and how you can utilize them. If you don't already have a GIS infrastructure or a plan for GIS, don't worry we have some suggestions on what you can do today with freely available web applications.

## Using a Proactive Strategy to Avoid Indoor Air Quality Problems

Timothy Duffy & Archie Barrett, Compliance Environmental & Stephen Kisielnicki, Gale Associates

This presentation will aid facility managers to prevent indoor air problems, to diagnose them when they occur and to know when to call in a professional. The talks will be provided in three sections:

(continued on page 15)

www.erappa2008baltimore.org

Please refer to the ERAPPA 2008 website to download Education Sessions presentations.

#### MONDAY, SEPTEMBER 29, 2008

## ENGAGED EMPLOYEES (EE) Harborside Salon E

## ECONOMICS OF GREEN (EG) Harborside Salon D

Session III 3:30 – 4:30 p.m. How the "Big C" Impacts FM Organizations: The Relationship Between Culture and Effective FM Organizations

Stormy Friday, The Friday Group

Often overlooked is the impact of corporate culture on the ability of the FM organization to be a successful player in the corporate arena and provide effective, value-for-dollar services that keep customers satisfied and invested in a partnership with the FM enterprise. Understanding the nuances of corporate culture and how it influences the FM organization, requires a serious commitment on the part of management and staff to proactively explore and analyze what it means, how it is used and why it needs to be sustained or changed. Although it is easy to pay lip service to culture and dismiss it as an insignificant component of the FM realm, culture provides the sustainability foundation for all FM organizations.

Unlocking the Potential of Solar Energy\* \*\*

Rod Shaffert, Cutler Associates and Jeff Wolfe, groSolar

Who says it isn't easy or cost effective being Green? There has never been a better or more important time to bring solar energy to your campus. With the cost of oil going up, the cost of green energy is going down. Imagine watching the electric meter on your new residence hall run backwards! Campuses across the country are turning to photovoltaic panels to convert light into energy on new and existing facilities. This is an overview of solar power and hot water, its advantages and future applications, and options for integrating alternative energy sources into your building program.

"If I had only one choice for an educational delivery I'd most certainly choose the ERAPPA Annual Meeting. Thanks to ERAPPA's progressive leadership, ERAPPA is a leader amongst the APPA Regions in all initiatives and the Annual Meeting is no exception. I encourage you to take advantage of the excellence being delivered to your doorstep."

MAGGIE KINNAMAN, University of Maryland Baltimore

<sup>\*</sup>Presentation approved for AIA/LU & PIE/PDH credits

<sup>\*\*</sup>Presentation qualifies for HSWa credit

#### STEWARDSHIP (ST) Kent

## Laurel A/B

**TRANSFORMATION (TR)** 

## SPECIAL SESSIONS (SS) Essex

#### The Union College Facilities Services Excellence Program

Loren Rucinski, Richard Patierne, Michael Connelly, & Diana Mirabile, Union College

Union College is a small undergraduate, liberal arts institution in upstate New York. The Facilities Services Department at Union needed a change. Maintaining a campus consisting of buildings which were approximately 85 years old, many systems were antiquated, and emergency repairs and failures were common. With the limited funding available for asset renewal, the Facilities group became a reactive organization. The Facilities Department at Union has initiated a creative program to energize and organize their staff by using open communication techniques and personal development that created ownership and "buy in" from the bottom up, by the people who where "in the trenches" on a daily basis.

#### Getting More Out of Your Campus Fire Alarm System\* \*\*

Chad Barnes, C&S Engineers, Inc.

With the threat of large scale emergency incidents looming over college campuses and other public facilities, campus administrators and facilities personnel all over the country are reviewing emergency response and contingency plans to ensure that they are prepared for such an incident to the extent possible. However, have you considered how you would conduct a campus-wide evacuation or relocation if necessary in a timely manner to help mitigate a large scale emergency incident and prevent it from involving collateral buildings or people? With today's fire alarm technology, some campuses and building owners are turning to their building fire alarm systems to act not only as a fire alarm/detection systems, but also as campus-wide mass notification systems.

#### Using a Proactive Strategy to Avoid Indoor Air Quality Problems

Timothy Duffy & Archie Barrett, Compliance Environmental & Stephen Kisielnicki, Gale Associates

(continued from page 13)

**GENERAL INDOOR AIR QUALITY:** 

The nature and scope of problems regarding the indoor environment will be reviewed. Indoor air quality can increase maintenance costs, reduce employee productivity, distract students, be deleterious to health and damage the public image of an educational institution. Regulations, standards, and guidelines will be differentiated to allow

a manager to determine when triggers

OSHA, EPA Standards. Examples of

problems will be presented.

EPA MOLD REMEDIATION GUIDELINES: Fungal and microbial growth has garnered much attention. EPA Guidance for Mold Remediation in Schools and Commercial Buildings will be introduced including: water extraction; drying; investigation, remediation, isolation practices and project validation.

BUILDING ENVELOPES: Moisture intrusion is a very significant cause of indoor air quality problems. Failures of building envelopes often cause large scale moisture intrusion conditions which demand correction. Best practices for the prevention and repair of these conditions will be provided and include roofing, wall systems, windows, foundations, and project controls during construction

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Please refer to the ERAPPA 2008 website to download Education Sessions presentations.

"I'm always looking for educational opportunities that broaden my knowledge base and help me remain current in industry practices. ERAPPA's annual conference always includes educational program offerings that are relevant, often ahead of the curve, and help me deal with my own institution's challenges."

RON DUPUIS, Emeritus Member

#### TUESDAY, SEPTEMBER 30, 2008

## ENGAGED EMPLOYEES (EE) Harborside Salon E

## ECONOMICS OF GREEN (EG) Harborside Salon D

## Session IV 9:15 – 10:15 a.m.

#### Keys to Managing Diverse Generations

#### Fran Topping, Gordon Cooper Technology Center

For the first time in history, four predominant generations are sharing our adult society. Each of these generations has unique workplace preferences and interaction styles. This presentation is particularly targeted toward those managers attempting to recruit, manage, and retain employees of different generations. Participants will have the opportunity to identify the characteristics typical of each of the four generations currently in our workforce, discuss the environmental and societal events which contributed to the development of these diverse traits, and determine strategies to enhance performance across generations.

#### High Performance Design: Sustainable, Obtainable and Cost Effective

#### Jason Kliwinski, Spiezle Architectural Group, Inc.

The list of college and university presidents signing the American College and University Presidents Climate Commitment letter to create a climate neutral campus grows each week. With over 400 signatures to date and growing, Universities recognize their unique leadership role in educating our future leaders in creating a culture of sustainability. The conversation will touch on the concerns, issues, and opportunities in working through the cross disciplinary layers of design and implementation in this new paradigm of green house gas master planning and cost effective LEED™ incorporation.

#### Session V 11 a.m. – 12 p.m.

#### Facility Director's Blueprint for Success

#### David Ferguson, University of Massachusetts-Dartmouth

This presentation will focus on 10 main areas facilities directors need to develop for success. They include: Leadership, Establishing Goals, Giving Staff a Voice, Communication, Building Partnerships, Being A Change Agent, Providing Tools, Customer Service, Knowing Your Facility and Staying Motivated. Participants will learn how all of these topics are interdependent, as well as, how all this comes back to the first area - Leadership. The presentation will focus on how to make significant changes in facilities organizations through sound leadership that cannot be learned in a classroom or in a book. Attendees will come away with new strategies to help them become more successful facilities leaders.

#### From Brown to Green: Initiatives for New and Existing Buildings and Why You May Already Be Greener Than You Think

#### Michael Mayes, Chemsearch

What exactly does "green" mean? For facilities managers, the emergence of new legislation and media hype has everyone asking "What's your Green plan?" This presentation will discuss the sometimes confusing and ever-changing Green landscape. Attendees will learn about the agencies certifying buildings and products, as well as, discover what simple things you may already be doing to "green up." Find out why you should have your own Green Initiative and why it doesn't have to break the bank.

<sup>\*</sup>Presentation approved for AIA/LU & PIE/PDH credits

<sup>\*\*</sup>Presentation qualifies for HSW credit

#### STEWARDSHIP (ST) Kent

## TRANSFORMATION (TR) Laurel A/B

#### SPECIAL SESSIONS (SS) Essex

#### Using Condition Assessment Modeling to Better Understand the Condition of Our Physical Assets\* \*\*

Gary Evans, Graphic Systems, Inc.

Facility condition assessments that produce capital project requirements and condition index results have become integral to strategic decision-making processes for higher education facilities. However, visual assessmentsare becoming more expensive and time-consuming, resulting in the economic need for new, innovative, and streamlined condition assessment approaches. Through research recently performed for the United States Federal Government, Graphic Systems, Inc. has investigated alternative methods used to predict capital repair and replacement project needs and calculate facility condition index results. This presentation will cover the findings of this research that reviews and compares various condition modeling techniques available today.

#### Ready, Set, Occupy! How to Build an Award Winning Residence Hall in 60 Days (or Less)

Mike Brewer, Muhlenberg College, Daniel L Harrigan, Spillman Farmer Architects, & Rich Smith, Kullman Buildings Corporation

Muhlenberg College faced a hurdle familiar to many other higher education institutions: replace inadequate dormitories and do it in just three months of summer construction. To achieve this goal, the College chose an innovative methodology that is transforming how facilities are built: Off-site Construction. The presentation educates participants on this cutting-edge construction strategy. Off-site Construction is an alternative that has been successfully implemented at Muhlenberg College and, previously at Yale University. Its appeal is the fact that the methodology reduces campus disruption time, is costeffective, and, importantly, offers the same design benefits of traditional construction.

#### Searching for Excellence Using APPA's Facilities Performance Indicators

Margaret P. Kinnaman, University of Maryland Batlimore & Michael Sofield, Smithsonian Institution

Data collection is an essential tool used to achieve organizational excellence and better communicate with campus decision makers. In this session anendees will discover why data collection is important, what areas should be measured and tools to get the job done. They will explore APPA's Facilities Performance Indicator Survey results and work in teams to apply the data to institutional case studies. Finally they will report their findings to the rest of the group.

NOTE: This session is an all-day session, from 9:30 a.m. to 4:30 p.m.

#### Strategic Vision for Facility Management: Striving for World Class at the Smithsonian Institution

Nancy Bechtol, Smithsonian Institution

The Smithsonian Institution centralized its facility management functions in 2002 in the Washington Metropolitan area. Efforts to build a robust, strategic, and world class organization were developed with many accomplishments and lessons learned along the way to share with other facilities management organizations. Highlights of these major accomplishments will make up the majority of this presentation. Creating an environment of professional development and national certification in all facilities disciplines, managing a simple and used CMMS, developing a strategic plan and vision are all essential to make sure the right work is being accomplished.

# The Benefits of Building Information Modeling (BIM) for Colleges and Universities

Martha Averso & Brian Robinson, Gannett Fleming Inc.

Building Information Modeling (BIM) is a powerful new tool being increasingly utilized on educational and institutional projects. A BIM model is a 3-Dimensional database of a building which includes all the specific design information of members, elements, equipment etc, and a visual tool for coordinating the work of various disciplines. BIM permits the integration of many types of design and construction information on a project. In addition to explaining BIM, the presentation will detail how owners and contractors are supportive of BIM as it has positively benefited their projects through cost savings and improvement in meeting scheduling challenges.

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#### TUESDAY, SEPTEMBER 30, 2008

#### **ENGAGED EMPLOYEES (EE) ECONOMICS OF GREEN (EG)** Harborside Salon D Harborside Salon E Session VI Mooo'vin Forward in Vermont: The Keys to Success Have Changed 1:45 – 2:45 p.m. A Comprehensive Facilities Plan at Steve Bellona, Hamilton College & David Barnes, the University of Vermont Hansa Air Conditioning HVAC active chilled-beam systems (ACB), has Sal Chiarelli, University of Vermont witnessed a rapid increase in interest. This new-The University of Vermont has undertaken a major to-the-U.S. air conditioning system is a timely transformation over the past decade. From the solution. Interest in ACB has occurred because realignment of the university's mission to the repair the keys to success have changed - high energy of the foundations of 200 year old buildings, the costs, environmental impact, global warming, rising Physical Plant Department has played a major role in cost- of- ownership, indoor air quality, occupant the university reaching some of its most important expectations, and need for innovation are all goals. Using a variety of techniques, UVM's addressed by ACB systems. This presentation will Physical Plant Department has met the challenge provide an overview including the strengths and of reducing deferred maintenance, implementing a weaknesses, design and application, necessary computerized maintenance management system, system components and how they all work together. increasing its engineering effectiveness, creating a It will also include a case study involving Hamilton utilities master plan, and a variety of other initiatives College and their Administration Builling renovation. that helped UVM succeed in its expansion. This presentation will describe the strategies and initiatives used to accomplish these tasks. Session VII STARS: The Sustainability Tracking and Facing Tomorrow's Critical Facilities Rating System and the University of Maine 3:15 – 4:15 p.m. Issues Head On: Educational Options and Strategies Gordon Nelson, University of Maine Jim Whittaker, Facility Engineering Associates Sustainability is much more than energy and recycling; it is a cohesive outlook of the future Every institution faces an increasing array of and how we live today. The Association for the challenges to effectively manage facilities in Advancement of Sustainability in Higher Education a manner required to accomplish its mission. (AASHE) has developed the Sustainable Tracking and One of the most daunting is "workforce issues" Rating System so that each college and university identified by APPA thought leaders as one of the can measure their sustainable performance. This top ten critical issues. This critical issue is all about presentation will examine the different elements of developing the next generation of facility leaders. sustainability that are ranked by the STARS model This presentation will provide real solutions to and explain the University of Maine's journey in help develop and prepare facility managers for gathering the information and the decision making the most relevant issues anticipated. The basis for processes that affect the University's score. the framework stems from the results of a recent National Research Council (NRC) study - "Core Competencies in Federal Facilities Asset Management Through 2020: Transformational Strategies" and case studies from leading institutions.

<sup>\*</sup>Presentation approved for AIA/LU & PIE/PDH credits

<sup>\*\*</sup>Presentation qualifies for HSW credit

#### **STEWARDSHIP (ST)** Kent

#### **TRANSFORMATION (TR)** Laurel A/B

#### SPECIAL SESSIONS (SS) Essex

#### Best Practice Methods for Prioritizing Capital Requirements at the University of Guelph

#### Robert Carter, University of Guelph

Many organizations face constraints in capital funding and human resources which result in deferred maintenance and renewal backlogs. In this presentation, Mr. Carter will outline the process that the University of Guelph employs to analyze and prioritize its maintenance and renewal requirements based on the risk management principles of frequency, severity, and cost. He will also discuss Guelph's management strategy for its ten-year rolling capital renewal plan.

#### Cool Trends on Campus: A Survey of Thermal Energy Storage (TES) Use of Campus District Cooling\*

John Andrepont, The Cool Solutions Company

A survey was conducted to develop a database of the use of Thermal Energy Storage (TES) in campus applications. These data should lead to useful insights and conclusions to assist campus planners, utilities managers, and facilities managers and engineers, not to mention business officers and trustees. A summary will be presented, illustrating such factors as: geographic distribution, including individual U.S. states and other countries; chronological distribution of installations; campuses with multiple TES installations or multiple phases of TES capacity expansion; and, a variety of other factors. Examples will be presented to illustrate applications and typical benefits, including potential capital savings.

#### Searching for Excellence Using APPA's Facilities **Performance Indicators**

Margaret P. Kinnaman, University of Maryland Batlimore & Michael Sofield, Smithsonian Institution

Continued from the morning session.

#### Reducing Heating Plant Outages Through REDOX Stress Management

#### John Ostberg, Nalco

Maintaining reliable steam production and protecting asset life of boiler systems are primary goals for every university heating plant manager and operator. One common challenge is corrosion of pre-boiler systems such as deaerators, feedwater lines and economizers due to feedwater REDOX (reduction/oxidation) stress events. To address the need for improved pre-boiler corrosion protection a large university evaluated a method for detecting and managing feedwater REDOX stress events. This presentation will discuss the results of this evaluation, and will outline a best practice approach for mechanical, operational and chemical improvements that extend equipment life, optimize chemical usage, reduce unscheduled outages, and save energy.

#### Don't Loose Sight of Maintaining Control Through **On-Line Management**

Ken Olsen, Ocean County College & Rachael Bittner, SchoolDude.com

Most maintenance departments are fighting fires by reacting to work requests from their educational facilities. These work requests occur hundreds to thousands of times a year and drive manpower responsibilities. Computerized Maintenance Management Systems (CMMS) have been available for years and allow the maintenance department to streamline this process. New Internet technology brings the power of maintenance technology to the smallest of maintenance departments, as well as the largest. Hear from Ocean County College about their business challenges, and how new Internet technology helped bring the power of technology to their facilities department.

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## Welcome to Baltimore



Baltimore is renowned for its bustling Inner Harbor and many waterfront attractions, but the city today actually offers a great deal more. Baltimore's rich cultural heritage is rooted firmly in its diverse neighborhoods, with a variety of arts, theater, history and culture appealing to a wide range of visitors. Whether you travel by water taxi, bus, car – or even on foot – you'll find Baltimore an easy city to enjoy.

Most travelers begin their journey at the state-of-the art Baltimore Visitor Center at the Inner Harbor. With the harbor's spectacular waterfront vista as a backdrop, guests can gather information about accommodations, shopping destinations, dining options and myriad cultural and recreational activities. Then it's off to explore all our city has to offer - the family-oriented attractions and sporting events around the Inner Harbor, the distinguished collections of the city's fine museums, a wide array of live theatrical performances and numerous sites of historical interest.

Beyond the Inner Harbor, charming neighborhoods beckon, each with its own proud ethnic heritage and culinary traditions. From the cultural mecca of Mt. Vernon to the kitchens of Greektown and Little Italy, and from the cobblestone streets of Fell's Point to the view atop Federal Hill, Baltimore offers many unique and unforgettable experiences. And we bet you can't do it all in just one day!



## **Entertainment**

#### **SUNDAY, SEPTEMBER 28**



#### **GOLF TOUR NAMENT**

Greystone Golf Course 6:00 a.m. - 3:00 p.m.

The ERAPPA 2008 Golf Tournament will be held at the Greystone Golf Course in beautiful Whitehall, Maryland. This award winning course was designed by Joe Lee, the same designer as the Doral Blue Monster. Greystone's championship course includes 140 feet of elevation changes and features seven ponds and more than 80 bunkers. The tall hardwood trees, wetlands, and native vegetation add an abundance of character to the design. Greystone's tees, greens and fairways are all preferred bentgrass, and all are expertly maintained.

6:00 a.m. Bus departs from the Baltimore Marriott Waterfront Hotel

6:30 a.m. Registration Opens at Greystone Golf Course

7:00 a.m. Breakfast

7:00 a.m. Practice Green and Driving Range Open

8:00 a.m. Shotgun Start - Captains Choice Scramble Format

1:00 p.m. Lunch and Awards in the Greystone Clubhouse

2:30 p.m. Buses Depart for Marriott Waterfront Hotel

NOTE: proper golf attire required (collared shirt, pants/shorts allowed). Footwear must be designed for golf, tennis or jogging. Footwear that has metal and/or ceramic spikes will not be permitted.



#### TOUR OF UNIVERSITY OF MARYLAND BALTIMORE AND THE M&T BANK STADIUM – Home of the Baltimore Ravens

11:30 a.m. - 4:30 p.m.

Spend a few hours touring the University of Maryland Baltimore campus and learn how the University of Maryland School of Medicine began in 1807 and has been continually operating over the past 200 years. Our day will conclude with a behind the scenes tour of the M&T Bank Stadium – Home of the Baltimore Rayens.

11:30 a.m. Depart from the Marriott 12:00 p.m. University of Maryland Tour (Davidge Hall, Westminster Hall, and the School of Dentistry)

2:45 p.m. Depart University of Maryland for M&T Bank Stadium

3:00 p.m. M&T Stadium Tour 4:00 p.m. Depart for the Marriott 4:30 p.m. Arrive at the Marriott

NOTE: A light snack will be provided during the tour.



EXHIBIT HALL GRAND OPENING SPONSORED BY:





#### BALTIMORE AQUARIUM ADVENTURE

On your own schedule

Housing more than 16,000 creatures, the National Aquarium in Baltimore, also known as the Baltimore Aquarium, exhibits a variety of species in their naturalistic habitats. You'll find animals such as stingrays, sharks, sea turtles, bullfrogs, phytoplankton, monkeys, sloths, iguanas, and puffins. The list is perpetual so you have to check the exhibits out for yourself. You can also catch an up-close view of dolphins as they leap and tumble with the Baltimore Aquarium trainers in the live-action Dolphin Show.

## EXHIBIT HALL GRAND OPENING RECEPTION

Exhibit Hall 6:30 a.m. - 8:30 p.m.

Please join us for the event that officially opens ERAPPA 2008 "Your Key to Success." The Exhibit Hall Grand Opening will be held in the Grand Ballroom. Arrive early to watch the ribbon cutting ceremony beginning promptly at 6:30 p.m. Come wander through the 100 Exhibit Hall booths and find out what is new in our industry and what support is available to help you solve your problems back at work. You will be eligible to win a prize if you solve the Exhibit Hall puzzle. Be entertained with "Cheek to Cheek." Light fare will be available. This event is all about networking... so enjoy.

Cost is included in registration fee.

## **Entertainment**



#### **MONDAY, SEPTEMBER 29**

# ANNAPOLIS TOUR Three Centuries Walking Tour, Shopping, and Lunch (on your own)

8:30 a.m. - 3:30 p.m.

Guides in colonial attire will take you on a tour of the historic area of Annapolis. Your tour will include the exhibit of Maryland's historic State House, the country's oldest state capitol in continuous legislative use. A short distance from the State House, you will pass by St. John's College. One of its early graduates was Francis Scott Key. Continuing through the historic area, you will pass many 18th and 19th century mansions. In the shadow of these beautiful buildings, your guide will share with you some history of the famous statesmen that built these magnificent structures.

8:30 a.m. Depart from the Marriott 9:30 a.m. Annapolis Walking Tour 11:30 a.m. - 2:30 p.m.

Free time to explore shops & have lunch on your own\*

2:30 p.m. Depart for the Marriott 3:30 p.m. Arrive at the Marriott





## CRAB FEAST HARBOR CRUISE Networking Reception/Dinner

6:30 p.m.

Board Lady Baltimore at Pier 5 7:00 - 11:00 p.m.

Dinner, Dancing, and Cruising

The evening begins with boarding at 6:30pm. Have your photo taken as you board and take it home as a souvenir at the end of the evening. After departure at 7pm, the buffet opens and you're invited to enjoy a delicious dinner while cruising down the river. Things will liven up about 45 minutes into the cruise with a dance floor and music on each deck.

#### **TUESDAY, SEPTEMBER 30**



# BALTIMORE TOUR Ride the Ducks tour, B&O Railroad Museum, and Ft. McHenry

8:30 a.m. - 3:30 p.m.

Our tour begins in an amphibious vehicle touring through historic Baltimore and into the Inner Harbor. Yes, we will go into the water in the same vehicle! Our next stop will be the B&O Railroad Museum where you'll experience the history of railroading exploring the oldest, most historic and most comprehensive American



railroad collections in the world. Our last stop will be Ft. McHenry where you will take a self-guided tour and explore the many exhibits.

8:30 a.m. Ride the Ducks Tour (departs from the Marriott)

10:30 a.m. B&O Railroad Museum

12:15 p.m. Lunch at the museum 1:15 p.m. Board Bus

1:30 p.m. Ft. McHenry

1:40 p.m. 16 min. Introductory film entitled "The Defense of Fort McHenry"

2:00 p.m. self-guided tour

3:00 p.m. Return to the Marriott 3:30 p.m. Arrive at the Marriott





## **Entertainment**



#### **AWARDS BANQUET**

5:45 p.m. - 12:00 a.m. Harborside Ballroom at the Baltimore Marriott Waterfront Hotel

5:45 - 6:30 p.m. Awards Reception 6:30 - 7:30 p.m. Awards Presentation 7:30 p.m. Dinner and Entertainment

We'll begin with a reception in the Harborside foyer and move into the ballroom for an evening of awards and entertainment. Dance the night away to the Fabulous Hubcaps.



# AWARDS BANQUET RECEPTION SPONSORED BY: CHEMAQUA Water Treatment Solutions CONSIGLI Est. 1905



AWARDS BANQUET ENTERTAINMENT HOST



#### WEDNESDAY, OCTOBER 1



## MORNING FUN RUN/WALK Journey into Baltimore's past

7:00 - 8:00 a.m.

Leaving from the hotel, this walking/running route takes visitors off the beaten path and deep into Baltimore's history. Visit little known but fascinating sites in the nearby neighborhoods of Little Italy, Jonestown and downtown. Stop to read about the sites or admire the historic sites as you jog on by.

"The networking opportunities at ERAPPA are tremendous. I always come back from this conference strengthened by the fact that I'm not alone in dealing with my institution's challenges and am inspired by the way in which my peers have conquered their problems."

JOE RUBERTONE, Associate VP for Facilities Administration, Quinnipiac University

## **Business Partners**

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## **Business Partners**

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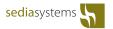


































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## **Business Partners**

# BUSINESS PARTNERS, SPONSORS AND EXHIBITORS

Each ERAPPA conference offers its attendees a number of opportunities to experience interesting locations with unique places and events – this 58th Annual Conference in Baltimore, Maryland is no exception!

Our valued Sponsors recognize that ERAPPA members pride themselves on providing a consistent level of quality services and their desire to share that vision is reflected through their support. We would like to acknowledge and thank all of our Sponsors for their support in making ERAPPA 2008 yet another successful annual conference.

The ERAPPA 2008 program was designed with ERAPPA's mission in mind: To provide its members and associates with quality opportunities for professional development through relevant education and networking programs. In order to do this, ERAPPA depends on the ongoing support it receives from its dedicated Business Partners.

ERAPPA and its Business Partners have formed a strong bond that helps support our commitment to providing excellence in facilities management. We are pleased to see, and experience, the diversity of Business Partners who have joined us in Baltimore to show their support. On behalf of the 2008 ERAPPA Business Partner Committee, we encourage you to visit the exhibitors — to rekindle existing partnerships and to establish new ones. We are certain that these partnerships will unlock opportunities to pursue technological advances and progressive facilities management practices — all of which will be Your Key to Success.

Kevin Mann Co-Chair, Business Partner Committee Physical Plant Salisbury University Nancy Yeroshefsky Co-Chair, Business Partner Committee Facilities Management University of Maryland College Park "ERAPPA is an amazing group of professionals who have to perform a wide rage of tasks, both day to day and long range, in a field that is packed with constant change and challenges.

One of the best ways I have found for staying on top and informed in the world of facilities is to learn and share at the ERAPPA Conferences."

KEVIN PETERSEN,
Director Facilities Maintenance
and Operations,
The Catholic University of America



Salisbury University

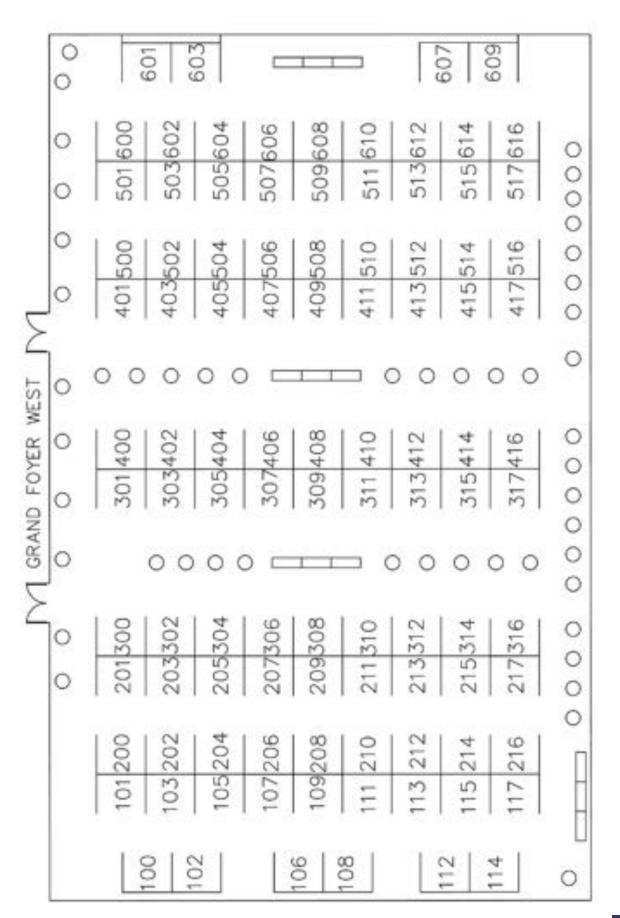


University of Maryland College Park

# **Business Partners by Booth**

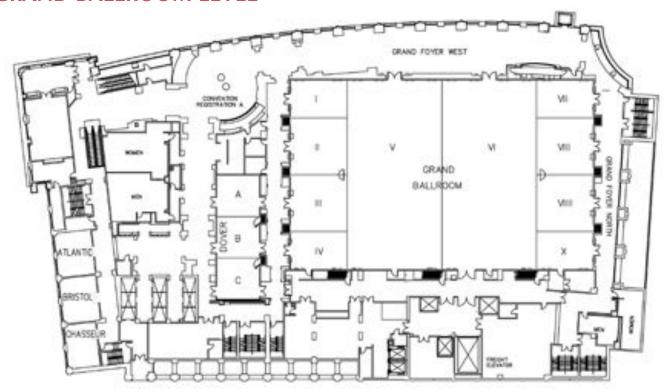
BOOTH #	COMPANY	BOOTH #	COMPANY
100	Club Car, Inc.	317	Rochester Midland Corporation
101	Horizon Engineering Associates, LLP	400	Chem-Aqua, Inc.
102	Vertical Transportation Excellence	401	CVM Facilities Renewal
103	RDK Engineers	402	C&S Companies
105	Constellation Energy	403	Centennial Contractors
106	Thermal Science Technologies	404	Consigli Construction
107	Aztec Products Inc.	405	Johnson Controls, Inc.
108	Taco, Inc.	406	Pepco Energy Services
109	Burns and Roe Services Corporation	407	Sebesta Blomberg
111	MAXIMUS, Inc.	408	Warfel Construction Company
112	Van Deusen & Associates	409	Tandus
113	Exeter Architectural Products, Inc.	410	Eaton Corporation
114	Diversified Woodcrafts	411	Strategic Building Solutions
115	Williams Scotsman, Inc.	412	The Foreman Group
117	Victor Stanley, Inc.	413	Taylor Wiseman & Taylor
200	Clifford of Vermont/a Power & Tel Co.	414	Phillips Way
201	Entech Engineering, Inc.	415	Accuscan
202	Aircuity, Inc.	416	The Henderson Corporation
203	Itron, Inc.	417	Howard Industries PRIME Sign Program
204	NK Architects	500	Tremco - Weatherproofing Technologies Canada
205	Sedia Systems	501	FAMIS Software, Inc., an Accruent company
206	McDonough Bolyard Peck, Inc.	502	Belimo Americas
207	Hoffmann Architects, Inc.	503	Nalco Company
208	Lerch Bates Inc.	504	Gannett Fleming Inc.
209	Compliance Environmental International, Inc.	505	Integrated Design Group Inc.
210	Cutler Associates, Inc.	506	TLA Building Envelope Consultants
211	Western Construction Group	507	Pizzagalli Construction Company
212	TMA Systems	508	K&W Engineers and Consultants
213	Direct Energy Business Services Limited	509	A.A.C. Contracting
214	Cambridge Commercial Carpets	510	SchoolDude.com
215	Janitronics Facility Services	511	Gale Associates, Inc.
216	Konover Construction Co.	512	The Protection Engineering Group, Inc.
217	UGL Unicco	513	ATC Associates
300	2009 Host	514	Cathedral Stone Products
301	APPA	515	International Light Technologies
302	William A. Berry & Son, Inc.	516	ONICON Incorporated
303	Turner Construction Company	517	Facility Engineering Associates
304	Bravo! Group Services	600	Barclay Water Management
305	RMF Engineering, Inc.	601	Spirotherm, Inc.
306	ISS Facility Services, Inc.	602	Spiezle Architectural Group, Inc.
307	GoGreen Facility Solutions	603	Northeast Energy Systems
308	Associated Builders and Contractors, Inc.	604	Holt Construction Corp.
309	Munters Moisture Control	606	Haley & Aldrich Inc.
310	Pennoni Associates Inc.	607	Spotts, Stevens and McCoy, Inc.
311	Triumvirate Environmental	608	KSS Architects
312	Hess Construction & Engineering Services	609	Werres Corporation
313	IMC Construction	610	STV
314	EnerNOC	612	Gali Service Industries, Inc.
315	The Garland Company, Inc.	614	Richard White Sons, Inc.
316	Solid Waste Solutions, Inc.	616	HydroProducts Company LLC

## **Exhibit Hall Map**

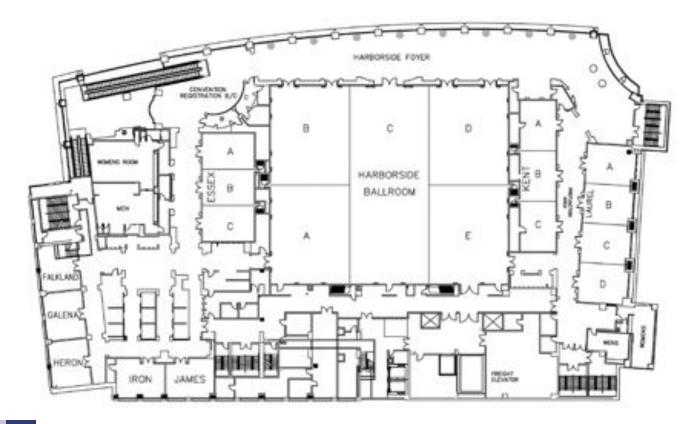


## **Marriott Waterfront Hotel**

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