ESUS

Environmental Stewardship Utilities & Sustainability Community

A Community of IFMA

ESUS SAG Newsletter

November 2017

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Bill Conley

John McGee

Barry Giles

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The ESUS Strategic Advisory Group (SAG)

STATS AND NEWS

1. Chairman's Notes

This newsletter comes on the heels of World Workplace 2017, held in Houston. This year IFMA honored three new IFMA Fellows; Collins Osayamwen, Rick Corea and Jim Whittaker. All are accomplished professionals who have made significant contributions to the advancement of Facilities Management worldwide. Click Here to read more about the recipients.

This year's Chair Citation went to Kate North, chair of the Workplace Evolutionaries (WE) Community. Kate North has led a group of forward-thinking workplace strategists to accelerate research, knowledge and innovation around the emerging workplace," said William M. O'Neill, CFM, Chair of IFMA's Board of Directors. "Kate and the WE Community know the workplace is changing; but instead of watching it unfold, they're making it happen. Click Here to read more about Kate and her accomplishments with WE.

Wrapping up the honors at WWP are the annual Awards of Excellence. Included in this year's honors is our own SAG member Bill Conley, recipient of the Distinguished Author Award, Article or Research Paper for his FMJ Magazine article on "Biomimicry: Imitation as a Science". Click Here to view the balance of this year's Awards.

Concurrent with WWP, IFMA also released its Annual Report. The report covers topics including financial standing, membership, education & credentials, events, research, standards, content creation, marketing & communication, government relations, organizational growth and the year in review. Click Here to view the full report.

Also released in October was IFMA's latest Operations and Maintenance Benchmarking report. Released in collaboration with the Royal Institution of Chartered Surveyors (RICS), it draws data from 2,000 survey respondents throughout the United States and Canada and includes analysis of 98,000 buildings. Click Here to view the abstract in the IFMA Bookstore. The report is available to IFMA Members for $295 (USD).

Moving on to this month's newsletter, we have an introductory article on the BREEAM building rating system, an update from the Interior Lighting Campaign, a welcome to nine new ESUS Community members, and info on upcoming webinars.

As always, we hope you find the newsletter enlightening…

Best Regards,

Dean Stanberry

2. Introduction to the BREEAM Building Rating System

BREEAM was developed by BRE (Building Research Establishment) back in the 1980s as a requirement of the British government to improve building design, construction and operations. With the launch of BREEAM in 1990, it quickly established itself as the backbone of nearly all green building rating systems in the world. Today, BREEAM is the most widely used program worldwide with over 2,200,000 million building registrations and over 550,000 certifications.

What makes BREEAM stand out from other rating systems is that BREEAM is built on science.

Where does the BREEAM science come from? BRE is owned by a trust which utilizes the profits from BRE companies and products to fund research and educational programs to advance knowledge, innovation and communication in all matters of the built environment. Using BRE funded scientific research makes BREEAM the most robust green building rating system in the marketplace.

However, BRE is much bigger than BREEAM. BRE is a 90-year-old company with extensive laboratories that undertake both in-house research into the built environment and third party analysis for international certification of materials and building techniques.

In 2016, BRE formed a new company with BuildingWise, the award-winning LEED certification consultancy to bring the BREEAM In-Use standard to the USA. Looking to tap into the existing buildings market that has been unable to certify with available green building rating systems, BREEAM In-Use can be used with any commercial building no matter the size, age or condition.

The BREEAM In-Use standard for existing buildings is critical for the FM industry. You are most likely familiar with, or work in buildings that were designed and built to the highest standard yet operate very poorly. Conversely, I'm sure you also know many 'ugly duckling' buildings – where teams operate them perfectly. These are the buildings where the facilities team should be getting the kudos that they deserve for running their 'ugly' building the best they can.

This is right on the mark for BREEAM In-Use

- Any commercial building
- Any age, any configuration, any occupancy
- No pre-requisites
- A years-worth of benchmarking available with no 'requirement' to certify
- $1000 per asset, per year

Email me and we'll talk some more (barry.giles@breamerica.com), or see our website at BREEAMUSA.com.

3. Interior Lighting Campaign Adds Luminaire Categories; Announces 2018 Recognition Event

The Interior Lighting Campaign (ILC) recently added three new luminaire types in addition to troffers. Resources and free technical assistance from the U.S. Department of Energy's Pacific Northwest National Laboratory are now available for troffers, high-bay, low-bay, and suspended linear lighting systems and associated lighting controls. If your organization has completed, or is planning to complete, projects that incorporate high efficiency lighting systems in these categories, you are eligible to join the ILC as a Participant. Lighting is roughly 20% of a building's electricity usage and it is one of the easiest and most visible improvements that can be made to a building. If you are planning a project, look for products that demonstrate performance of at least 105 lm/W, and don't forget lighting controls! Better yet, you may want to consider applying the High Efficiency Troffer Performance Specification (betterbuildingssolutioncenter.energy.gov/resources/high-efficiency-troffer-performance-specification).

Progress Towards Goal

To date, Campaign Participants, many of which are IFMA members, have installed over 1.5 million high efficiency lighting fixtures, and in many cases added lighting controls as well. Participants typically save more than 50% in energy compared to the existing lighting installation, and up to 80% when incorporating controls. Beyond documenting the energy savings from Participants, the ILC recognizes organizations that demonstrate exemplary energy savings at specific sites. One way to recognize is via written materials and other communication channels celebrating the great success of Participants' energy-saving efforts. Another method is the recognition event, where Participants with exemplary projects are formally recognized. This Campaign year, outstanding sites will be recognized at the Illuminating Engineering Society

of North America's annual conference August 9 – 11, 2018 at the Boston Waterfront. Visit the ILC website, http://www.interlightingcampaign.org/ for more information and to join the Campaign. 2018 ILC Recognition applications will be due in late April 2018.

IFMA has been a proud Organizing Committee member of the ILC since its inception in 2015. Other groups serving on the Organizing Committee include the Building Owners and Managers Association International (BOMA), Illuminating Engineering Society of North America (IES), U.S. General Services Administration (GSA), and the U.S. Department of Energy (DOE).

4. ESUS Sustainability Liaison Calls

The ESUS SAG has put the Sustainability Liaison bi-monthly calls on a temporary pause. If you wish to be notified of future liaison calls, please contact "Lee, Jaclyn" jlee@ifma.org to have your name added to the distribution list.

5. Welcome to our new Oct 2017 ESUS Community members.

We would like to welcome October's new Sustainability SAG community Members:

Nik D'Annunzio	ndannunzio@absoluteweathershield.net
Leslie Keen	lkeen@waterlogic-texas.com
Jacob Keith	keithj5@wwu.edu
Anthony Wartko	twartko@seapines.com
Joshua Smith	joshua.smith@ey.com
Michael Phelps	m.phelps@lacksenterprises.com
Jonathan Farr	jfarr@vivreau.com
Mike Greenfield	mike.greenfield@bevi.co
Erik Makinson	erik@resource-synergy.com

We look forward to your participation. We are a volunteer organization so please let us know if you are interested in getting involved in any of our activities or if you have any questions or comments (contact sustainability@ifma.org). Please check out previous newsletters on the ESUS Community website for more information on our activities.

6. Save the Date

- **November Webinars**
  It is our pleasure to announce IFMA's ESUS community will be hosting a webinar with the authors of the Sep-Oct FMJ article on Building Healthier Workplaces.

  - ***Building Healthier Workplaces***
    On November 15th, 1-2pm (EST), ESUS is presenting a "Building Healthier Workplaces" webinar. Registration information will be sent to the ESUS Community soon.

    Wellness and well-being are topics of increasing interest, from breakrooms to board rooms around the world. In 2011, a Gallup Poll found full-time workers in the U.S. with one or more chronic health conditions miss an estimated 450 million additional days of work each year compared to healthy workers. The result is an estimated cost of more than US$153 billion in lost productivity annually. With approximately 5.6 million commercial buildings in the U.S. housing roughly 120 million employees, small improvements to wellness and well-being can translate into billions of dollars in productivity benefits — not to mention the health, happiness and longevity of our most precious resources: people.

    Presenters:
    Reena Agarwal
    CEO, Center for Active Design

    Reena Agarwal is the Chief Operating Officer at the Center for Active Design, where she is responsible for research and policy efforts aimed at using design to promote health. She was previously a Project Director at the New York City Department of Design and Construction where she focused on regulatory and legislative efforts that promoted environmental sustainability and health in building design. Reena holds a Master of Urban Planning from New York University, a Bachelor of Architecture from the University of Michigan and has over ten years of experience working as both an architect and planner, where she specialized in zoning and building code compliance. Her past projects involve the design and master planning of residential, commercial and university buildings in New York City. Reena is a member of the American Institute of Architects. Reena will be presenting an overview of the Fitwell Certification System.

    Ravi Bajaj
    Project Manager, Healthy Buildings

    Ravi is a project manager at Healthy Buildings, an environmental consulting firm serving the commercial real estate industry since 1980. Ravi services projects across three service lines — Sustainability, Energy & Resources and Indoor Environmental Quality (IEQ). Ravi has professional experience as a green building consultant with an emphasis on education and training. He holds a degree in Earth Science from U.C. San Diego and is a LEED Accredited Professional with specialties in Existing Buildings Operations and

Maintenance, Building Design and Construction and Interior Design and Construction. He is also a WELL Accredited Professional and trained as a WELL and BREEAM Licensed Assessor. Ravi will discuss building asset value with health & wellness initiatives.

December Webinars

Stay tuned for registration information on our upcoming December Webinar. We are looking forward to an Internet of Things discussion following the article appearing in the Nov-Dec issue of the FMJ.

- Internet of Things (IoT)
  December 6th, 2-3pm (CST) – Registration Link Coming Soon

  ESUS is presenting a webinar on IOT and Smart Buildings. Topics to be discussed include current status/drivers, technology overview (including Artificial Intelligence), case studies and organizational impact/best practices. Speakers are Erik Jaspers (Planon), John McGee (Sulis Energy Solutions) and Eric Teicholz (Graphic Systems).
  (Image by the Arkados Group)

7. Editorial Calendars for ESUS eFMJ Articles and Webinars

eFMJ Articles

Issue	Theme	Proposed Topic
Nov/Dec 2017	Technology and next generation FM	IoT, Analytics, AI and Cloud: Implications for CRE/FM and Sustainability
Jan/Feb 2018	Form Meets Function	Resilience in Design
Mar/Apr 2018	Financing FM	Funding Options for Energy Efficiency Upgrades
May/Jun 2018	Owning O&M	
Jul/Aug 2018	Managing 21st Century Spaces	
Sep/Oct 2018	The Evolution of FM	
Nov/Dec 2018	Sustainability Review	
Jan/Feb 2019	The How-To Guide	

Webinars (2017)

Webinar Date/Time	Topic
Nov 2017	Wellness Benchmarking & Certification
Nov 2017	• (Tentative) Asset Optimization: Life Cycle Costing Techniques • Building Healthier Workplaces
Dec 2017	IoT, Analytics, Big Data, IFMA Portal
Jan 2018	(Tentative) DOE: Better Buildings Swap
Feb 2018	(Tentative) Financing Options for Energy Efficiency Upgrades

Mail your ideas for webinar and article topics to sustainability@ifma.org. In case you missed a webinar, URLs for 2016 and 2017 are as follows,

Feb 17, 2016: ENERGY STAR -
https://attendee.gotowebinar.com/recording/8637296428037464835

Mar 8, 2016: Getting Started
https://attendee.gotowebinar.com/recording/6074554726479061505

May 18, 2016: 12 PM Central: Measuring and Reporting -
https://attendee.gotowebinar.com/recording/4662997302282251010

June 22, 2016: 12 PM Central: Waste Stream Management –
https://attendee.gotowebinar.com/recording/2311727970939962628

July 13, 2016: Engaging Tenants in Energy Efficiency –
https://attendee.gotowebinar.com/recording/4255201634878825987

September 7, 2016: Resilience Planning for FMs
https://attendee.gotowebinar.com/recording/5824908416393568513

November 8, 2016: Energy Storage: Is it Right for Your Building
https://a ttendee.gotowebinar.com/recording/288633175935953924

January 11, 2017: Energy and Water Benchmarking – Bringing financial and sustainability value to your building
https://attendee.gotowebinar.com/recording/6645466250411212546

April 27, 2017: Working with Electric Utilities (Part A) - IFMA Community Orientation to Electric Utilities, **https://attendee.gotowebinar.com/recording/2196378212865802755**

June 27, 2017: Working with Electric Utilities (Part B): IFMA Community Orientation to Electric Utilities. **https://attendee.gotowebinar.com/recording/5265983781542905858**

July 20, 2017: Energy Star - Train the Trainer
https://attendee.gotowebinar.com/recording/1654546581136398593

August 31, 2017: Part 2: Energy Star - Train the Trainer
https://attendee.gotowebinar.com/recording/1407081699027754497

October 4, 2017: Voice of the Tenant
https://attendee.gotowebinar.com/recording/7820586900663700739

8. News from our Third Party Liaisons

US Dept. of Energy, Better Buildings

[Better Buildings Challenge Partners Save $1.9 Billion, 18 Achieve Their Portfolio-Wide Goal this Year]

The U.S. Department of Energy (DOE) today announced the energy-efficiency progress made by the 345-leading public and private sector organizations in the Better Buildings Challenge. These efforts have led to a combined 240 trillion Btus and an estimated $1.9 billion in cumulative energy and cost savings. These results are summarized in the 2017 Better Buildings Progress Report released today that highlights accomplishments across the broader Better Buildings Initiative. The goal of this initiative is to make commercial, public, industrial, and residential buildings 20 percent more energy efficient over the next decade by focusing on overcoming market barriers and sharing partner-created solutions.

Better Buildings Webinar Series

Date/Time		Topic	Description
Tuesday, Nov 7, 2017 3:00 - 4:00 PM (EST)		**2 for 1: Energy Efficiency and Water Savings are a Combo Deal**	Learn how you can achieve both energy and water savings in an industrial or commercial setting, and how one often follows the other. **Register**.
Tuesday, Dec 5, 2017 3:00 - 4:00 PM (EST)		**Lab Partners: How to Leverage DOE National Laboratories**	Learn about the National Laboratories and how your organization can work with them to enhance your energy efficiency. **Register**.
Tuesday, Jan 9, 2018 3:00 - 4:00 PM (EST)		**Big Results in Small Places: Exploring the Untapped Energy Efficiency Potential of Small Data Centers**	Learn why small data centers shouldn't be overlooked when it comes to energy efficiency, and discover low-cost, high-win strategies that can reduce energy demand. **Register**.

CITY ENERGY PROJECT

IFMA and ESUS collaboration with the City Energy Project continues to grow. Empowered with a letter of support from IFMA's CEO, Tony Keane, ESUS will be working with CEP to connect local IFMA Chapters and CEP City Advisor staff resources in to pursue the benchmarking ordinance objectives across their 20-city scope. A number of the CEP cities have expressed an interest in collaboration with IFMA and ESUS will be reaching out to those IFMA Chapters in the very near future.

City Energy Project: A Model for Maximizing Impact

The City Energy Project (CEP) is a national initiative to create healthier and more prosperous American cities by improving the energy efficiency of large buildings. It employs a distinctive model that makes extensive use of networks and regional partners to keep costs low and to ensure "high to medium" touch support at the most local level possible. To assess the suitability of the CEP model for other projects aiming to effect complex, cross-sectoral change on a similar scale, The Kresge Foundation commissioned this analysis based upon a comprehensive mid-term evaluation of CEP conducted by Ross Strategic in 2016. Specifically, this analysis addresses the following:

- Aspects of the model that are highly valuable
- Aspects of the model that create vulnerabilities
- Potential adjustments that could increase the effectiveness of the model

Funders, non-profit partners, and future program implementers may find this memo useful when considering future projects, particularly those that, like CEP, have a model policy or playbook that could be piloted across multiple cities and then fine-tuned and adopted more broadly; programs involving an initial experimental phase where tools, resources, and knowledge gained can be applied to subsequent program phases to increase their efficiency; and programs that are complex in terms of political will, requirements for technical support, and implementation.

Please send comments and suggestions to: sustainability@ifma.org