

AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS INC.

LONDON CANADA CHAPTER #116

<http://LondonCanada.AshraeChapters.org>

Mon Nov 24/2008

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TOPIC:

Energy Efficiency in Existing Buildings - our greatest opportunity for a Sustainable Future

GORDON HOLNESS P.E.

Consulting Engineer
ASHRAE Society President Elect

Meeting - Mon Nov 24/2008

RESEARCH NIGHT

London Chapter Members = \$30.00
Meal Plan Rate = \$150.00
Students = \$10.00 Others = \$40.00

THE LAMPLIGHTER INN, 591 Wellington Rd., London
CASH BAR ALL YOU CAN EAT BUFFET
5:15-Social 6:00-Dinner 7:15-Program





President's Message

Season's Greetings from the ASHRAE London Chapter Executive.

With little more than 5 weeks until Christmas, and 6 weeks to 2009, this year has really flown by quickly.

Our October meeting was well attended by more than 54 members, students, and guests, and we hope to see this increased attendance continue.

This month's meeting will feature the ASHRAE Society incoming President Elect as our speaker.

Gordon V. R. Holness will present his Distinguished Lecture on "Energy Efficiency in Existing Buildings - our greatest opportunity for a Sustainable Future".

Gordon will attend the ASHRAE Windsor Chapter meeting on Tuesday November 25th and will speak on "ASHRAE's Path Towards Net Zero Energy Buildings".

The Windsor Chapter of ASHRAE is celebrating their 25th Anniversary this year, and we would like to wish them the best, and many more years of success.

This meeting in November will be a Research Promotion night, and we will be recognizing some of our past donors to ASHRAE Research with a certificate and coins. We hope to have Gordon Holness do some of the presentations on behalf of ASHRAE Society.

We are looking to membership for suggestions or comments re the venue that we currently are using at the Best Western Lamplighter Inn. It has been suggested that we may want to explore a new meeting location, and were looking for input from our members. Please feel free to speak to any of the members of our Board of Governors if you wish to suggest an appropriate location for consideration.

We look forward to seeing everyone at the meeting next Monday night...

Eric Shaw
ASHRAE London Canada Chapter President

Speakers Bio


GORDON HOLNESS P.E. ASHRAE President-Elect

Gordon Holness P.E. is Chairman Emeritus of Albert Kahn Associates, Inc. Architects and Engineers, in Detroit. He retired from the firm in 2001 having served for over 32 years including roles as Chief Mechanical Engineer, Treasurer, Board Member, President and CEO. He currently provides Consulting Engineering Services and serves as an expert witness for design and construction issues.

He is a Professional Engineer, registered in 42 States and 5 Provinces. He is a chartered engineer in the United Kingdom. He has over 50 years experience in design and construction, specifically in mechanical engineering services for industrial, health care and institutional buildings in England, Canada and the United States.

He joined ASHRAE in 1965 and is currently Society President Elect serving on the Executive Committee and the Board of Directors. He serves as Chair of the Advocacy Committee, and Chair of Members Council. Mr Holness will serve as President of the Society for 2009-10.

Pete Edmiston
Branch Manager



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Upcoming Meetings & Events

Mon Jan 26/2008 *Membership Night*

Revisions to B149 and Venting
 Don McInroy
 Industrial Sales & Product Manager
 Security Chimneys International

Mon Feb 23/2009 *Student Night*

Controls
 Technology Shifts and ASHRAE Standards
 Joseph Klotz
 Product Sales Manager for Canada
 Johnson Controls

Mon Mar 30/2009 *Tour Night*

Tour - Toyota

Mon Apr 27/2009 *Membership Night*

CIPH and the Future of Hydronics In Canada
 John Goshulak P.Eng.
 Vice President, Sales and Marketing
 Weil-McLain Canada

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Sustainable Urban Design the Focus of ASHRAE Winter Conference '09 in Chicago

ATLANTA – At the 2009 ASHRAE Winter Conference in Chicago, you can be greeted at the Tech program not once but twice, courtesy of this year's extended series of sessions at McCormick Place on Wed., Jan. 28. Although the conference's technical program begins Jan. 25 at the Palmer House Hilton, the "Wednesday Welcome" event at the AHR Expo location offers ASHRAE members a chance to attend a kick-off morning reception and receive critical technical information at the educational sessions, with access to the show floor to see the latest in HVAC&R offerings.

ASHRAE's free public session also focuses on Sustainability in the Urban Development, sharing how the industry is building on its efforts to increase energy efficiency and indoor environmental quality of buildings by furthering the sustainability of entire communities. It is held at 3 p.m. Jan. 26 at McCormick Place.

The ASHRAE Winter Conference runs Jan. 24-28, 2009, and the AHR Expo takes place Jan. 26-28. For more information on the ASHRAE Conference, please visit

www.ashrae.org/chicago



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**ASHRAE Research Newsletter**

This year's fund-raising campaign has gotten off to a good start. As of the end of October, we are at \$838 of our annual goal of \$10,000. We will begin our annual fund-raising drive in full earnest beginning January 2009 but donations can be made at any time. Key things to remember when making your donations this year are;

- Canada gets back over double what is received in research donations. In Region II alone, there is currently \$536,707 of research projects in progress. Some key research projects happening locally are "Improving Load Calculations for Fenestration with Shading Devices" and "Geothermal Energy". The results from both these projects will help in LEED-certified building design.
- Donations to ASHRAE Research Canada are considered charitable donation for companies so there is tax deduction.
- *No donation is too small!!!*

In appreciation for donation received over the past year, I would like to recognize the following Honour Roll contributors from London Chapter. Thanks again for your continued support of ASHRAE Research Canada.

\$100

Mr. Andrew Piatek

Mr. Dennis Dawe

Mr. Eric Shaw

Mr. George Qubty

Mr. Jack C Maynard

Mr. Jason Vandenberghe

Mr. John Bisset

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Engineers Inc.

Johnson Controls (London)
Union Gas Ltd.

Scott Edmunds

Research Chair 2008-2009

ASHRAE London Chapter

Ph: 519-495-4761

sedmunds@uniongas.com



New Professional Certification from ASHRAE Focuses on Facility Operations and Performance

ATLANTA – Energy use in buildings can be reduced by 10 to 40 percent by improving operational strategies in buildings, according to a study by the Energy Systems Lab at Texas A & M University. A new certification program from ASHRAE helps building owners know they are hiring and retaining employees and consultants who know how to take advantage of such strategies.

The Operations and Performance Management Professional Certification (OPMP) program helps earners demonstrate their knowledge of the management of facility operations and maintenance and their impact on HVAC&R systems' performance. The program will launch at the ASHRAE Winter Meeting in Chicago in January and will be available via electronic testing centers worldwide starting in March 2009.

"With buildings using 40 percent of all energy in the United States, it is essential that their energy consumption be reduced," says Bill Harrison, ASHRAE president "Every building, new or old, must be operated at its own optimum level. To do so, we must apply advanced knowledge and skills to building operations. ASHRAE's OPMP certification helps professionals attest that they are well prepared to manage and maintain buildings to fully achieve reliability and their potential energy savings."

Developed with input from APPA and GSA, the OPMP certification program is intended for those working in facilities operations, management construction, design, or consulting; and for those who have experience in facility operations and performance. By earning OPMP certification, certificants will demonstrate a well-rounded understanding and knowledge of the management of facility operations and maintenance and the impact of O&M on HVAC&R systems' performance.

Individuals must meet certain eligibility qualifications to take the exam. For more information, an exam content outline and available resources for exam preparation, please visit www.ashrae.org/certification.

The fee for the OPMP program is \$275 for ASHRAE members and \$395 for non-members. For more information, please e-mail certification@ashrae.org.

Inspection, Maintenance Requirements Outlined in New ASHRAE/ACCA Standard

ATLANTA – Maintain to sustain is the name of the game when it comes to saving energy and money in today's building stock.

A new standard from ASHRAE and the Air Conditioning Contractors of America (ACCA) will help ensure a consistent minimal level of HVAC&R maintenance and inspection to preserve a system's ability to achieve acceptable thermal comfort, energy efficiency, and indoor air quality in commercial buildings.

ANSI/ASHRAE/ACCA Standard 180-2008, Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems, is the first standard to address inspection and maintenance of HVAC systems. Robert Baker, chair of the committee that wrote the standard, noted that inconsistencies exist within the building industry when it comes to inspection and maintenance of HVAC systems, with some facilities following rigorous policies while others have adopted a run-to-failure approach.

"Consistent maintenance ensures that energy efficiency remains at design levels," Baker said. "Where maintenance is neglected, energy costs rise significantly and equipment life drops dramatically. With HVAC&R systems responsible for about 60 percent of site electrical energy use, it's imperative that we provide consistent maintenance and inspection to improve energy efficiency along with thermal comfort and indoor air quality. When systems are not maintained, indoor air quality, occupant comfort and energy efficiency all suffer."

In addition, much of the information that will be required to prepare the maintenance program can be obtained from building commissioning documents, which provides a basis for identifying failures.

The cost of ANSI/ASHRAE/ACCA Standard 180-2008, Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems, is \$31 (\$25, ASHRAE members).

New Ventilation Design Requirements for Health Care Facilities Available from ASHRAE

ATLANTA – Just like the right dose of medicine can improve health, proper ventilation is an integral part of patients' well-being in health care facilities.

Requirements to ensure high-quality ventilation can be found in a new standard written by ASHRAE and the American Society for Healthcare Engineering (ASHE). ANSI/ASHRAE/ASHE Standard 170-2008, Ventilation of Health Care Facilities, defines ventilation system design requirements that provide environmental control for comfort, as well as infection and odor control.

The standard is the first ANSI standard in the nation to specifically address ventilation in health care facilities and is available for adoption by various authorities for health care facility construction such as city, state and federal governments and by private national organizations such as the Facilities Guidelines Institute and the Joint Commission on the Accreditation of Healthcare Organizations (JCAHO).

Without high-quality ventilation in health care facilities, patients, health care workers and visitors can become infected by simply breathing.

"Air-transmitted pathogens can be found everywhere in poorly ventilated health care facilities," Richard Hermans, P.E., ASHRAE certified healthcare facility design professional (HFDP), chair of the committee that wrote the standard, said. "Because these organisms are found in higher concentrations in hospitals and because patients are susceptible to them, additional care should be taken in the design of ventilation systems."

The standard addresses systems and equipment; space ventilation for a variety of areas in health care facilities, including airborne infection isolation rooms, critical care units, burn units, surgery rooms, and Class B and C operating rooms; and planning, construction and system startup.

The cost of ASHRAE/ASHE Standard 170, Ventilation of Health Care Facilities, is \$54 (\$43, ASHRAE members).



New Standard Provides Guidance on Testing Seismic Restraints for HVAC&R Equipment

ASHRAE Standard 171-2008 Published

ATLANTA – Forget what Jerry Lee Lewis said; there's not going to be a whole lotta shakin' going on with a new standard from the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). ANSI/ASHRAE Standard 171-2008, Method of Testing Seismic Restraint Devices for HVAC&R Equipment, provides manufacturers a standard way of testing such devices to prequalify products for earthquake-prone areas.

"This standard is a breakthrough for ASHRAE," says James Tauby, chair of the committee that wrote the standard. "This new national standard moves testing from the West Coast to the entire United States.

It is the first national standard for seismic restraint testing of non-structural components that does not require shaker table testing, which is the required testing form in many California projects. Standard 171 provides provide static-test procedures for determining the capacity of seismic restraints for HVAC&R equipment. These test procedures determine the maximum force a restraint can withstand without breakage or permanent deformation.

Manufacturers of vibration isolators, seismic restraint vendors and strut channels can use the standard to test their products' suitability for standing up to earthquake conditions, and consulting engineers can use the standard as a reference in specifications.

The cost of Standard 171-2008 is \$39 (\$31, ASHRAE members).

ASHRAE/IESNA Standard 90.1-2007 User's Manual Makes it Easier to Save Energy

ATLANTA – A revised user's manual will assist users of the ASHRAE/IESNA energy conservation standard in energy efficient design.

The User's Manual for ANSI/ASHRAE/IESNA Standard 90.1-2007, Energy Standard for Buildings Except Low-Rise Residential Buildings, is now available. This manual has been through an extensive revision process to incorporate the various addenda approved since the 2004 edition according to Keith Emerson, who oversaw review of the manual for the Standard 90.1 committee. Since the 2004 edition was published, 44 addenda have been approved and are now incorporated into the manual. Updates have been made to reflect and illustrate the changes in every portion of the 90.1 Standard. Appendix G changes have also been made.

"The Appendix G changes will be particularly useful to people involved with projects that are trying to achieve a certain amount of savings over and above the minimum requirements of the standard," Emerson said.

The 90.1-2007 User's Manual illuminates the standard by providing detailed instruction, calculation examples and compliance forms for the design of commercial and high-rise residential buildings. It includes sections on administration and enforcement, building envelope, HVAC systems, service water heating, power, lighting, the energy cost budget method and the building performance rating method.

The cost of the 90.1 User's Manual is \$93 (\$74, ASHRAE members), plus shipping and handling.

ASHRAE Publishes Residential IAQ Guideline

ATLANTA – A new residential ventilation and indoor air quality (IAQ) guideline is now available from ASHRAE.

ASHRAE Guideline 24-2008, Ventilation and Indoor Air Quality in Low-Rise Residential Buildings, is the companion guideline to ANSI/ASHRAE Standard 62.2-2007, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings, the only nationally recognized ventilation and IAQ standard developed solely for residences. Guideline 24 provides information on achieving good IAQ that goes beyond the requirements contained in Standard 62.2 by providing explanatory and educational material not included in the code-intended standard.

The guideline, which was written by the committee responsible for maintaining Standard 62.2, includes information on envelope and system design, material selection, commissioning and installation, and operation and maintenance.

Committee chair Steven Emmerich said, "While Standard 62.2 contains the essential minimum requirements that all low-rise residential buildings should meet to achieve acceptable IAQ, Guideline 24 is an essential resource for designers, builders and others looking for reliable information on topics not covered in the standard or seeking to go beyond minimum for high performance construction. Topics covered range from fundamentals of building airflow to humidity control to verification of equipment performance."

The cost of Guideline 24-2008 is \$54 (\$43, ASHRAE members). To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit at www.ashrae.org/bookstore.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

***ASHRAE Seeks to Engineer Tomorrow....Today in Windy City***

ATLANTA – Chicago, with one of the most recognizable skylines in the world, has long-standing status as a livable urban center. That the city has stood the test of time makes it the perfect backdrop for ASHRAE's 2009 Winter Conference theme, Sustainable Urban Design: Engineering Tomorrow....Today.

With a focus that resources must be conserved and environments respected even in urban settings, the ASHRAE Conference takes place Jan. 24-28 at the Palmer House Hilton. Held in conjunction with the meeting is the ASHRAE co-sponsored AHR Expo, Jan. 26-28, McCormick Place.

For complete meeting information and to register, visit www.ashrae.org/chicago. Take advantage of the "Early Bird" rate and register by Oct. 31.

Meeting highlights include availability of more than 200 Professional Development Hour credits available through the technical program, with its theme of Sustainable Urban Design, and ASHRAE Learning Institute courses.

Seeking to create additional value for Expo and Conference attendees, ASHRAE is launching "Wednesday Welcome," at which all ASHRAE program sessions on Jan. 28 will take place at McCormick Place. Hands-on, applications-type programs are offered in the morning, leaving the afternoon open to tour the Expo.

ASHRAE's free public session also focuses on Sustainability in the Urban Development, sharing how the industry is building on its efforts to increase energy efficiency and indoor environmental quality of buildings by furthering the sustainability of entire communities. It is held at 3 p.m. Jan. 26 at McCormick Place.

Also featured in the technical program is the technical plenary speaker, Adrian Bejan, Ph.D., J.A. Jones Distinguished Professor of Mechanical Engineering at Duke University. Bejan developed the constructal theory, which he says can predict how everything flows through time and space. The session takes place from 9:45-10:45 a.m. Jan. 25, Palmer House. Overall, the tech program features more than 100 sessions with presentations of 68 papers.

Opening the meeting on Jan. 24 at the plenary session is keynote speaker, Chris Luebke, who runs the Global Foresight and Innovation initiative at Arup, a global design and engineering firm. His presentation echoes the meeting theme with a focus on sustainable urbanization, looking at some of the current global efforts to both design new cities and adapt existing cities to the new era of dwindling resources.

Sustainability is highlighted in the technical tours of facilities, including the ASHRAE Technology Award winning-Chicago Center for Green Technology, the Modern Wing of the Art Institute, the Intercontinental Chicago, which is the first Energy Star-rated hotel in the city, and the Spertus Institute of Jewish Studies, designed on the concepts of tikkun olam (meaning repairing the world) and bal tashchit (do not waste).

The ASHRAE Learning Institute offers five Professional Development Seminars and 12 short courses at the Palmer House and McCormick. New sessions include Low Temperature Radiant Heating and High Temperature Radiant Cooling Systems, Chilled Beam Technology for Excellent Indoor Climate in an Energy-Efficient Manner, Installation of Residential Ventilation Systems (Standard 62.2), and Business Management and Operations for Engineers.

ASHRAE also will launch its latest certification program, Operations and Maintenance Management Professional Certification, during the meeting. For more information, visit www.ashrae.org/certification.

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The Wednesday Welcome includes 18 hands-on, applications-type programs, held from 9 a.m. to 1:30 p.m., centering around the Technical Program theme of Sustainable Urban Design.

"The Wednesday Welcome gives Winter Conference attendees two great reasons to spend some extra time in Chicago," says Bill Harrison, ASHRAE president. "Not only does this extension of the ASHRAE Technical Program provide additional opportunities for earning PDHs, but attendees can take advantage of the location to make the most of the experience through AHR Expo's networking and product opportunities. It's the biggest bang for your ASHRAE buck."

Sessions held at McCormick Place feature back to basics sessions on load calculations and liquid chiller operations, BIM, Standard 62.1's demand controlled ventilation and IAQ procedure, VFDs, commissioning for sustainability programs, building automation systems and sessions entitled Liability and Litigation Issues in Green Design, Part 1 and 2 and Case Studies in Sustainable Retrofit to Reduce Energy of Existing Buildings.

Overall, the technical program offers more than 100 sessions, with more than 140 Professional Development Hour credits available.

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ASHRAE Opens Green Building Standard Committee to New Membership

ATLANTA - As ASHRAE, USGBC and IESNA move forward in developing the nation's first standard for high-performance, green commercial buildings, membership on the committee developing the standard is being reconstituted.

Proposed Standard 189.1, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings, will provide minimum requirements for the design of high-performance new commercial buildings and major renovation projects, addressing energy efficiency, a building's impact on the atmosphere, sustainable sites, water use efficiency, materials and resources, and indoor environmental quality. It is being developed by ASHRAE, the Illuminating Engineering Society of North America (IESNA) and the U.S. Green Building Council (USGBC).

To better address the varied areas covered in the proposed standard, a new committee is being appointed. A call for members is open through December 4 at www.ashrae.org/publicreviews.

"The market will benefit from the lead taken by ASHRAE and its cosponsors in developing this most challenging standard, which addresses ever-evolving technology," said ASHRAE Presidential Member Kent Peterson, who has been named as chair of the Standard 189.1P committee. "As we have proceeded down this path, we recognized that the proposed standard would benefit from additional expertise and more involvement from interested parties. We are committed to developing this green building standard with accurate and appropriate technical content through a rigorous, transparent and fair standards development process."

The proposed standard has generated much public interest, with more than 900 comments received during each of the two public reviews. While the standard has undergone two public reviews, it is anticipated that the standard will undergo a new full public review in the near future as technical guidance and input is offered by new committee members.

Those interested in serving on the committee can find more information at www.ashrae.org/publicreviews.

ASHRAE Hosts Industry Partners at Headquarters Renewal Event

ATLANTA – The ribbon is cut, the donors have been honored, and ASHRAE's newly renovated sustainability showcase is officially open for business.

Some 200 people gathered Thursday, Oct. 23, for the Headquarter dedication ceremony in Atlanta. The guests included industry partners who donated nearly \$1.65 million in equipment and services for the \$7.65 million renovation.

"None of this would have been possible without the hard work and commitment from many volunteers and staff involved in the renewal for the last three years," Bill Harrison, ASHRAE president, said. "More importantly, generous donations by companies and firms have ensured that not only our building will be here for a long time to come but that ASHRAE can continue to provide the sustainable building technology guidance that we are known for."

"Not only is the renovation a technology and productivity showcase, it also exemplifies the incredible potential of determined ASHRAE members and the greater ASHRAE community working toward a common goal," Jeff Littleton, ASHRAE executive vice president said. "This renovation represents the largest capital investment in ASHRAE history at \$7.65 million."

Major contributors to the Headquarters project include the ASHRAE Foundation, Carrier Corp., Automated Logic Corp. /Automated Logic Georgia, ClimateMaster Inc., Daikin Industries Ltd., Southern Company/Georgia Power Company, and Trane. Partners also include Aircuity Inc. and Interface FLOR. Also donating are Allsteel® /Ivan Allen; Mark H. Brandli/design principal for Richard Wittschiebe Hand; CxGBS; Dynamic Air Quality Solutions; EBTRON Inc.; GE Power; Bill and Margaret Harrison; Bruce Hunn, ASHRAE's director of strategic technical programs; ITT/Bell & Gossett/James M. Pleasants Co.; NorthWrite Inc.; PolyCon Manufacturing; Thermal Gas Systems Inc.; U.S. Green Building Council; and VFA Inc.

IFMA, ASHRAE COLLABORATE ON ENERGY EFFICIENCY ISSUES

ATLANTA — (Oct. 7, 2008) — With buildings accounting for 40 percent of primary energy use in developed nations, it is becoming increasingly important to find ways to build and operate them in an energy efficient manner. In recognition of this, the American Society of Heating, Refrigerating and Air-Conditioning Engineers and the International Facility Management Association are entering into an agreement that increases cooperation between the two groups.

The memorandum of understanding, to be signed at IFMA's World Workplace 2008 Conference & Expo, calls for sharing resources and collaborating on projects, publications, sustainability research and educational offerings that will be beneficial to both organizations' members and constituents. ASHRAE and IFMA will also work together on legislative and regulatory issues through their Washington, D.C., offices.

"Engineers and facility managers share an important relationship in creating and maintaining buildings that are safe, healthy and energy efficient," said Bill Harrison, ASHRAE president. "Now, ASHRAE and IFMA are seeking to take that cooperative relationship to the next level. This agreement strengthens the existing partnership between our two organizations. By working together on issues in the built environment, we can enhance our respective efforts to create a sustainable future."

"ASHRAE's indoor air quality standards have long provided benchmarks and guidelines for facility managers to use in keeping workers comfortable, safe and productive," said David J. Brady, IFMA president and CEO. "In the new era of triple bottom line accountability on financial, social and environmental contributions, the need for energy vigilance and conservation is greater than ever."

The memorandum will be signed at 2:30 p.m. on Thursday, Oct. 16, at a press conference during World Workplace. Long recognized as the world's premier educational and networking conference for facility managers and those in related fields, World Workplace brings industry leaders from the world's top business and government organizations together with educators and exhibitors to focus on the future of the work environment. Now in its 29th year, the conference will feature 83 educational sessions and new product demonstrations by more than 300 manufacturers from across the globe.

World Workplace will be held Oct. 15-17 at the Dallas Convention Center in Dallas, Texas. For a complete list of conference details, visit www.worldworkplace.org. Members of the media interested in attending World Workplace may register at no cost here.