

2007 PROGRAM

August 15-17, 2007

Atlanta, Georgia

Georgia World Congress Center



FEATURING



Presented by Platinum Sponsor Government Energy Leader Government Energy Leader Green Star Energy Leader Blue Star Energy Leader Red Star Energy Leader



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C O S P O N S O R S



TRACK H HIGH PERFORMANCE BUILDINGS	TRACK I ENERGY MANAGEMENT	TRACK J INDUSTRIAL ENERGY MANAGEMENT	TRACK K INDUSTRIAL ENERGY MANAGEMENT	TRACK L TRANSPORTATION	TRACK M GOVERNMENT FEMWORKS	TRACK N INTERNATIONAL ENERGY MANAGEMENT
SESSION H2 ROOM C204 <i>High Performance Schools</i>	SESSION I2 ROOM C205 <i>Information Technology</i>	SESSION J2 ROOM C207 <i>Power Quality: Questions and Answers</i>	SESSION K2 ROOM C208 <i>Next Generation Strategic Energy Management</i>	SESSION L2 ROOM C209 <i>Fleet Energy Management</i>	SESSION M2 ROOM C210 <i>Energy Management DoD</i>	SESSION N2 ROOM C211 <i>International Energy Management</i>

Chair: FREDRIC S. GOLDNER, C.E.M., Principal, Energy Management & Research Associates	Chair: RICHARD G. LUBINSKI, C.E.M., C.D.S.M., B.E.P., C.S.D.P., President, Think Energy Management, LLC	Chair: WAYNE L. STEBBINS, C.P.Q., Principal Electrical Engineer, Perigon Engineering	Chair: ELIZABETH A. DUTROW, Director, Industrial Sector Partnerships, U.S. EPA ENERGY STAR	Chair: NICOLE HILLIS, U.S. EPA ENERGY STAR	Chair: BUSTER G. BARKSDALE, JR. C.E.M., Senior Vice President, Primary Integration Energy	Chair: M.M. ARDEHALI, Ph.D., P.E., Professor, Energy Systems Laboratory, Amirkabir University of Technology
9:00-9:30 am K-12 Energy Management Program DOUGLAS J. PEARSON, C.E.M., Director Building Services, Madison Metro School District	9:00-9:30 am An Owner's Approach to Energy Management System Design PAUL J. ALLEN, P.E., Chief Engineer, Energy Management, and CHRISTOPHER SANDBERG, Princ. Eng., EM System, Walt Disney World	9:00-9:30 am Evaluating Retrofit Energy-Saving Devices—Techniques for Evaluating Vendor Claims BILL R. HOWE, PE., C.E.M., Program Manager, Power Quality, EPRI Solutions	U.S. corporations are looking at the risks that energy impacts may present to their businesses in new ways. They are doing this to successfully manage energy risk despite deep uncertainty about the future. This panel will review four new energy futures or scenarios developed to enable corporations to advance their strategic energy plans, and consider potential corporate responses to each of these futures. 9:00-11:30 am Panelists: ROBERT COLUCCI, Director, Global Energy & Asset Management, Merck & Co., Inc. BRUCE BREMER, C.E.M., B.E.P., Manager, Facility Engineering, Toyota Motor Manufacturing North America, Inc.	9:00-9:30 am Reducing Fleet Energy Use is a Part of Good Corporate Energy Management MITCH GREENBERG, U.S. EPA	9:00-9:30 am Lessons Learned from \$112 Million Energy Projects GARY G. GATES, P.E., C.E.M., B.E.P., Program Manager, Navy SW Division, NAVFAC	9:00-9:30 am Energy and GHG Savings in the Canadian Plastics Industry JAMES FARRELL, Consultant, Hatch Associates
9:30-10:00 am Vocational School Improves Facilities, Saves Energy Using ESPC YAJU CHAUHAN, C.E.M., C.B.C.P., E.Eng., Siemens Building Technologies, and GUIVAL MERCEDAT, C.E.M., C.B.C.P., Project Engineer, NSTAR Electric & Gas	9:30-10:00 am GridWise—The Future of Electricity is About Energy Engineering JOHN J. MCGOWAN, C.E.M., President and CEO, Energy Control Inc.	9:30-10:00 am Managing Power Quality in the New Millennium: Getting the Most Out of Your Utility in the Post-Deregulation Environment STEPHEN MIDDLEKAUFF, P.E., Principal Engineer, Perigon Engineering	9:00-11:30 am Panelists: ROBERT COLUCCI, Director, Global Energy & Asset Management, Merck & Co., Inc. BRUCE BREMER, C.E.M., B.E.P., Manager, Facility Engineering, Toyota Motor Manufacturing North America, Inc.	9:30-10:00 am Don't Overlook the Shipping Fleet in Corporate Energy Management PETE SILVA, Director-Fleet Procurement, Pepsico Global Procurement	9:30-10:00 am Innovative Ways to Use Heat Pumps to Save - Energy LAWRENCE D. JOHNSON, CECNM, C.G.D., Mechanical Engineer, U.S. Air Force	9:30-10:00 am Opportunities of Cogeneration in Eastern and Northeastern India DAVE LAHIRI, P.E., C.E.M., Partner, Viridian Energy and Environmental LLC
10:00-10:30 am Continuous Commissioning in a High School Case Study DAYU DONG, Ph.D., Engineering Director, Bes-Tech	10:00-10:30 am Capitalize on Technology-Enabled Energy Management GREGG M. DIXON, C.E.M., C.D.S.M., C.S.D.P., Senior Vice President, Marketing and Sales, EnerNOC, Inc.	10:00-10:30 am Voltage Sags Drain Your Profit But Solutions are Available IAN ROSS, MA, MIEE, President, Omniverter Inc.	10:00-10:30 am Managing UPS Fleet Energy ROBERT K. HALL, UPS	10:00-10:30 am Managing UPS Fleet Energy ROBERT K. HALL, UPS	10:00-10:30 am Steam Plant Decentralization Results in Greater Than 30% Energy Savings STEVE BOYLE, Director of Federal Business Development, Pepco Energy Services	10:00-10:30 am Computational Fluid Dynamics Analysis LEONARD K. CHOW, Ph.D., C.E.M., C.B.C.P., Director, ISPL Consulting Ltd.
10:30-11:00 am Project EverGreen Schools GARY WESTERHOLM, Chairman & CEO, Partner Green	10:30-11:00 am Sustainable Energy Conservation—Monitoring and Optimization Using the Internet JOHN M. DUFF, C.E.M., C.S.D.P., President, ENthEnergy, LLC	10:30-11:00 am New Use for an Old Technology: The Ultra-Low Harmonic Adjustable Frequency Drive MICHAEL R. OLSON, Manager—HVAC Applications, ABB Inc.	RANDOLPH A. HOLME, C.C.P., C.E.M., Division Vice President, National Starch & Chemical Co.	10:30-11:00 am Questions and Answers	10:30-11:00 am Solving the Hurdle of Financing High Performance Design Through Total Life-Cycle Valuing (TLCv) DENNIS RAMDAHIN, Energy Strategist, Air Force Base Energy Modeling	

FREE Poster Sessions

Wednesday, August 15, 2007 / 10:00 am - 6:00 pm
Thursday, August 16, 2007 / 10:00 am - 4:00 pm
Exhibit Hall C-1 - Georgia World Congress Center

Complementing the this year's World Energy Engineering Congress conference, exposition, and related events, this year's poster sessions will provide an opportunity for authors, session presenters, conference attendees, and exhibit hall visitors to interact, and give and receive ideas on a one-on-one informal basis. Presenters will be available for Q&A:

Wednesday from 11:30 am - 12:30 pm and from 4:30 - 5:30 pm
Thursday from 11:00 am - 12:00 noon and from 1:30 - 2:30 pm.

INNOVATIVE PROJECT TOUR OFFERINGS:

Guided Tour of Georgia World Congress Center Central Plant Chillers and Boilers Facility
Wednesday, August 15, 2007 / 2:30 pm - 3:30 pm

Atlantic Station Chilled Water Plant Guided Tour
Thursday, August 16, 2007 / 2:30 pm - 3:30 pm

For more information, visit the tour counter in the registration area.

AEE Salutes Its Corporate Members

Stop by AEE Membership Booth #529 and find out why your company should consider becoming an AEE corporate member.

30th World Energy Engineering Congress Advisory Board

AEE extends its appreciation to the following individuals for their help in developing the 30th World Energy Engineering Congress program:

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Oklahoma State University

Laurie Wiegand-Jackson, C.E.P.,
North America Power Partners LLC

Some of the distinguished energy professionals who will be presenting vital information and new concepts at the 2007 WEEC conference.



Clark



Messenger



Kuhlman



Eberly



Colucci



Smith



King



Chow



Solmes



Katz

TRACK E RENEWABLE ENERGY	TRACK F DG & DISTRICT ENERGY	TRACK G ENERGY TECHNOLOGIES
SESSION E4 ROOM C106 <i>Renewable Energy Technologies</i>	SESSION F4 ROOM C201 <i>Dist. Energy Gen. for Climate- Neutral Campuses</i>	SESSION G4 ROOM C203 <i>Energy Management Strategies</i>
Chair: KATHLEEN C. STAHL, Energy Management Engineer, DOT, General Services Division	Chair: WOODROW CLARK, III, Ph.D., Managing Director, Clark Strategic Partners	Chair: ELIZABETH M. KIMMEL, Director of Business Development, EnergyConnect Inc.
9:00-9:30 am Windpower Resource Screening for the Western U.S. Region G. LOREN TOOLE, Technical Staff Member, Los Alamos National Laboratory	<i>College campuses provide one of the leading sectors for clusters of buildings that need to have renew- able energy systems for mitigating carbon and global warming. Green energy systems are the key, but these systems require experts who can perform due diligence at all levels: technology, planning, economics, accounting, and law.</i>	9:00-9:30 am Energy Survey Tool REESE BRENTZEL, C.E.M., NSC Senior Energy Engineer, Raytheon Company
9:30-10:00 am Renewable Energy Sources: Biogas and Tire-based Fuels for Industrial use CRISTIAN CARDENAS- LAHACAR, Ph.D., Faculty & Tech. Mgr., UF-IAC, Dept. of Ind. & Systems Eng.	9:00-11:00 am Panelists: LARRY EISENBERG, Executive Director, Facilities Planning & Development, Los Angeles Community College District	9:30-10:00 am Development and Execution of an Energy Management Strategy Using Lean Six Sigma JEFFREY COHEN, Six Sigma Black Belt/Energy Manager, General Dynamics Electric Boat
10:00-10:30 am Finally Feasible: Totally Solar Powered Parking Lot Lighting Systems LORENCE LEETZOW, President, Magraray International	BHARAT B. PATEL, P.E., C.E.M., LEED AP, Principal, DMJM	10:00-10:30 am An Enlightened Approach to Budgeting and Goal Setting for the Energy Manager JOHN M. AVINA, C.E.M., B.E.P., C.S.D.P., Director, Abraxis Energy Consulting
10:30-11:00 am A Stochastic Mixed- Integer Programming Approach for Integrating Emerging Technologies into Existing Mature Processes Under Uncertainty and Financial Risk Mgmt. SAJJAD AHMED, Tech. Mgr., PPG Industries Inc.	TONY FAIRCLOUGH, Consultant Engineer, Los Angeles City College	10:30-11:00 am Six Sigma Methodology: GE Energy Systems LARRY A. VALERY, C.E.M., Senior Energy Procurement Specialist, GE Energy

KEYNOTE LUNCHEON

Friday, August 17, 2007 / 11:15 am - 1:30 pm
ROOMS C306-C308

"Global Energy Outlook"

J. Jason Hammer
Energy Advisor for Corporate Planning
Exxon Mobil Corporation

The keynote lunch is included in your
full conference registration.

Energy Managers' Hall of Fame

The Energy Managers' Hall of Fame recognizes an individual for his or her lifetime achievements in the energy industry. This year the Hall of Fame is proud to induct the following individuals who have clearly demonstrated their lifelong commitment to energy management.

The 2007 honorees will be inducted into the Hall of Fame during the World Energy Engineering Congress Keynote Luncheon on Friday, August 17, 2007

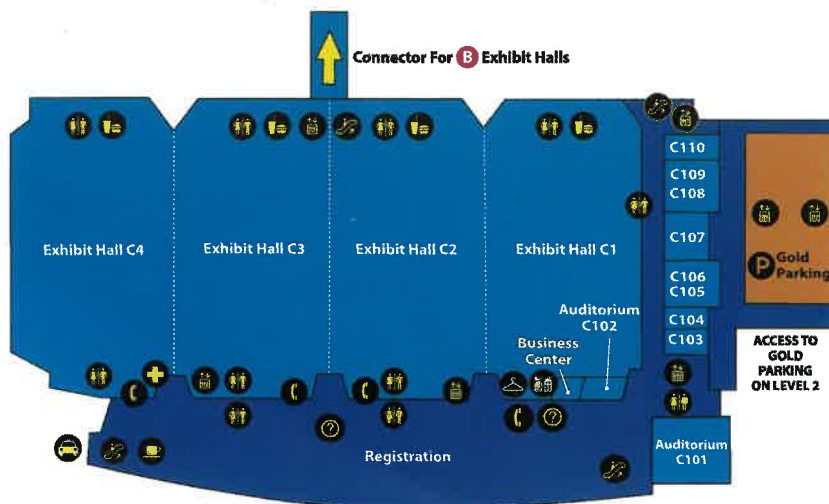
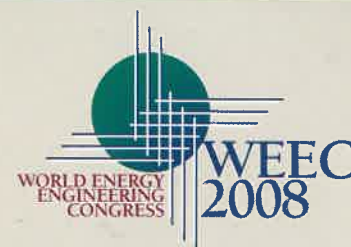
THIS YEAR'S INDUCTEES:

FREDRIC S. GOLDNER, C.E.M.
Principal, Energy Management & Research Associates
WILLIAM J. YOUNGER, C.E.M., B.E.P., C.E.P.
Senior Energy Management Engineer, Puget Sound Energy

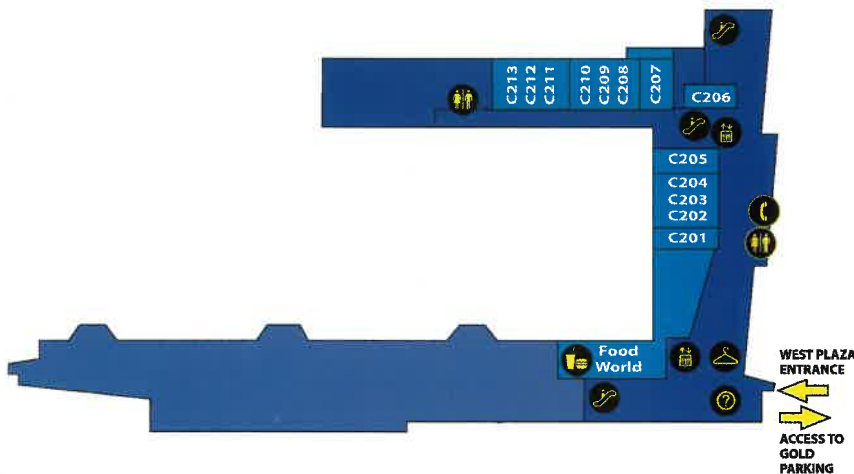
Visit the Hall of Fame Showcase in the Exhibit Hall

GEORGIA WORLD CONGRESS CENTER BUILDING C • LEVELS 1, 2, & 3

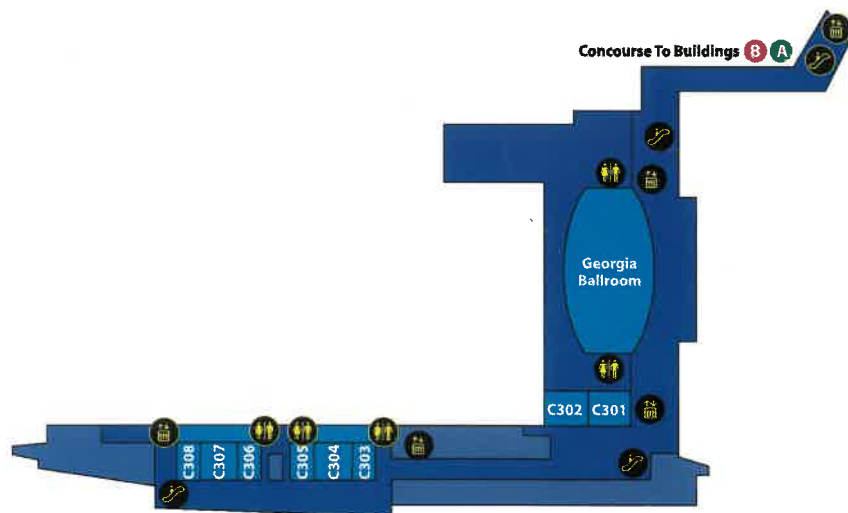
2008 WEEC CALL FOR PAPERS



Georgia World Congress Center • Building C • Level One



Georgia World Congress Center • Building C • Level Two



Georgia World Congress Center • Building C • Level Three

The Advisory Board and the Association of Energy Engineers cordially invite you to submit a one-page abstract for consideration to speak at the WEEC. The WEEC is the largest energy efficiency and renewable energy conference and exposition in the nation. The total event consists of over 250 presentations and a powerful exposition. Deadline for receipt of abstracts is February 22, 2008. Registration fee for the conference will be complimentary for the presenters. Individuals wishing to participate as a session chair should contact Helen Ardavin at helen@aeecenter.org. To submit an abstract for WEEC 2008, go to www.aeecenter.org/weecabstract

If you have any questions concerning abstract submissions, contact:

Helen Ardavin
Director of Conference Speakers
Phone: (770) 447-5083, Extension 215,
or email: helen@aeecenter.org

Opening Session
GEORGIA BALLROOM

Awards Banquet
GEORGIA BALLROOM

Speaker/Press Rooms
ROOMS C212 & C213

Keynote Luncheon
ROOMS C306-C308



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*Thank you for your participation in this year's Congress.
We hope to see you next year at WEEC 2008, Gaylord National Convention
Center on the Potomac, Washington, DC, October 8-10, 2008.*