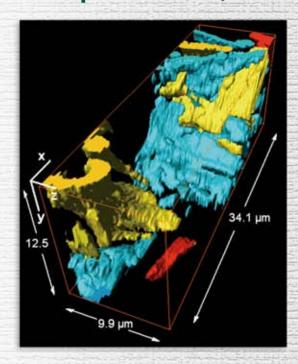
# Fourth International Conference on Advances and Trends in Engineering Materials and their Applications

Fairmont Hotel Vier Jahreszeiten Hamburg, Germany September 1 - 4, 2009



### **Hosts and Chairs:**

Professor Dr. Y. M. Haddad, P. Eng.

Organizer and Co-chair
DFG Mercator Professor,
Technical University of Darmstadt, Germany.
\*Professor of Mechanical Engineering
University of Ottawa
Ottawa, Canada K1N 6N5

yhaddad@uottawa.ca

Prof. Dr.-Ing. Wilfried Becker

**Co-chair**Mechanical Engineering
Technical University of Darmstadt,
Germany

becker@mechanik.tu.darmstadt.de

http://www.genie.uottawa.ca/~haddad/AES-ATEMA2009-HAMBURG-GERMANY.pdf

Venue & Conference Hall

**Sponsors** 

Call for Papers

Important Dates **Instructions** to Authors

Germany Registration

Conference Hotel

**Social Events** 

Contact us

# Venue

### Willkommen in Hamburg!

AES-ATEMA' 2009 (Hamburg)
is planned\* to take place in the magnificent Fairmont
Hotel in the heart of downtown Hamburg, Germany.

"Fairmont Hotel Vier Jahreszeiten"

Neuer Jungfernstieg 9-14

20354 Hamburg, Germany

+49 40 3494-0



After the remarkable success of both preceding AES-ATEMA' 2007 (Montréal, Canada) and AES-ATEMA' 2008 (Cesena, Italy), AES-ATEMA' 2009 (Hamburg) is planned to take place in the magnificent "Fairmont Hotel Vier Jahreszeiten", in the heart of downtown Hamburg, Germany.

"Hamburg is Germany's second-largest city. Its grand merchants' houses and magnificent promenades, international musicals, shopping malls and St. Pauli district give Hamburg a cosmopolitan feel. A touch of the exotic clings to the warehouse district and the city's trademark canals. With its many parks and gardens, Hamburg is also Germany's greenest city.

Hamburg has more than 50 museums offering an informative, fun and educational experience, from the

Museum of Art and Craft to special exhibitions in the Bucerius Art Forum to the miniature railway wonderland in the warehouse district. From Ernst Barlach House to the Hamburg Dungeon, there is no limit to art in Hamburg".

#### Willkommen im Fairmont Hotel Vier Jahreszeiten!

"Prominently located on the western side of the Inner Alster Lake shore in Germany, The Fairmont Hotel Vier Jahreszeiten lies in the heart of the prime retail and commercial district. Founded in 1897, the Fairmont Hotel Vier Jahreszeiten has welcome its guests from all over the world for more than 110 years. Ceaseless concern to offer each guest the greatest possible comfort has led to it being consistently ranked among the top hotels in the world. Few other hotels in Germany or elsewhere can match its rich blend of individuality, tradition and distinction. The public areas of the Fairmont Hotel Vier Jahreszeiten are furnished with a collection of exquisite 16th- and 17th-century Flemish Gobelin tapestries, baroque cupboards and Renaissance chests. This luxurious Hamburg Hotel offers a veritable treasure trove of history, luxury and elegance in one.

In addition to impeccable service and luxurious accommodation, you will find some of the best restaurants in Hamburg such as the Haerlin Restaurant, which serves classical and modern cuisine. The Lounge, at the heart of the hotel, creates a unique atmosphere of elegance and cosiness. We recommend afternoon tea in front of the fire while listening to live piano music".

Venue & Conference Hall

Sponsors

Call Important Dates

Instructions to Authors

Conference

Conferen

Registration Conference Social Events Contact us

# **Sponsors**

AES-ATEMA' 2009 International Conference is sponsored by the refereed AES Technical Reviews International Journal Series (ISSN1915-5409), The series is dedicated to advances in engineering and interdisciplinary research. AES Technical Reviews is currently inviting articles for possible publication in the following journals:

Part A: International Journal of Nano and Advanced Engineering Materials (IJNAEM) - ISSN 1916-5358

Part B: International Journal of Advances in Mechanics and Applications of Industrial Materials (IJAMAIM) – ISSN 1718-5505

Part C: International Journal of Advances and Trends in Engineering Materials and their Applications (IJATEMA) – ISSN 1916-5366

Part D: International Journal of Reliability and Safety of Engineering Systems and Structures (IJRSESS) – ISSN 1916-5374

# AES Technical Reviews International Journal International Editorial Board

Professor Nabil Bassim University of Manitoba, Canada

Professor Wilfried Becker Technical University of Darmstadt, Germany

Dr. Christos Chamis NASA Glenn Research Center, USA

Professor Fu-Kuo Chang Stanford University, USA

Professor Roberto Contro Technical University of Milan, Italy

Professor Yehia Haddad (Chair and Editor in-Chief) University of Ottawa, Canada

Professor David Hui University of New Orleans, USA

Professor Fujiu Ke BeiHang University, PR China

Professor Akhtar Khan

UMBC – University of Maryland,

USA

Professor Michal Kotoul Brno University of Technology, Czech Republic

Professor Gerard Maugin Université Pierre et Marie Curie, France

Professor Sergei Mileiko Solid State Physics Institute, Russia

Professor José Moya Instituto de Ciencia de Materiales de Madrid, Spain

Professor Alfonso Nappi Universita' degli Studi di Trieste, Italy

Professor Lucio Nobile University of Bologna, Italy

Professor George Papanicolaou University of Patras, Greece

Professor Valdim Potapov Moscow State University of Communications Means, Russia

Professor Olli Saarela Technical University of Helsinki, Finland

Professor Shinsuke Sakai University of Tokyo, Japan Professor Yasuhide Shindo Tohoku University, Japan

Professor George Sih Lehigh University, USA & East China University of Science and Technology, PR China

Dr. rer. nat. Ewa Soppa Materialprfüngsanstält(MPA) –Universitat Stuttgart, Germany

Professor Costas Spyropoulos National Technical University of Athens, Greece

Professor Yoshihiro Tomita Kobe University, Japan

Professor Yue-Sheng Wang Beijing Jiaotong University, PR China

Professor Andrew Wilczynski Warsaw University of Technology, Poland

Professor Anastasius Youtsos Democritus University, Greece

Venue & Call Im Conference Hall Sponsors for Papers

Important Instructions Dates to Authors

Registration Conference Hotel Social Events Contact us

# **Call for Papers**

### Conference main topics

Contributions, mini-symposia and expositions are welcome in the following and related areas:

- Advances and trends in engineering materials
- Materials and engineering design
- Mechanics of materials and devices
- Materials performance, processing and modeling
- Nano- and microtechnology
- Surfaces and interfacial sciences
- Advances in molecular dynamics
- Fibers
- Joining of advanced materials (including numerical modeling, simulation and processes)
- Advanced composite and aerospace materials
- Hybrid materials and systems
- Intelligent materials, adaptive structures and their applications
- Piezoceramics
- Mass diffusion and phase transition
- Smart micro- and nanoelectronic devices and systems
- Electronic and computational materials
- Films and membranes
- Electronic and computational materials
- Environment and security observation using advanced engineering materials
- Damping of engineering structures
- Viscous damping and contemporary architecture
- Fuel cells
- Biomedical materials and their applications
- Biomedical systems and devices
- Biodegradability, compostability and life cycle assessments
- Static, quasi-static and dynamic behavior

- Inhomogeneous and discrete systems
- Micro-, meso- and macromechanics
- Alloys
- Ceramics and nonmetallic materials
- Semiconductors
- Structural mechanics
- Materials under severe loading conditions
- Wear and wear resistance
- Powder Metallurgy
- Paints and derivatives: Characteristics and response behavior
- Mechanical and physical characterization
- Advances in fracture and damage mechanics
- Numerical methods, including modeling, optimization, simulation, etc. of the response behavior
- Experimental testing methods for the determination of the mechanical and physical characteristics of industrial materials
- Nondestructive testing
- Performance stability
- Reliability and security of structures through the application of advanced industrial materials
- Maintainability and health monitoring
- Pattern recognition and classification methodology as applied to engineering materials and structures
- Fabrication and manufacturing of advanced engineering materials
- · Renewable materials and recycling
- Interdisciplinary topics related to advanced industrial materials and their applications
- Other related topics

Venue & Conference Hall	Sponsors	Call for Papers		mportant Dates	Instructions to Authors
Registratio	Confere Hote		ocial Events		Contact us

# **Important Dates**

Deadline for submission of abstract	IMMEDIATE
Notification of acceptance of abstract	IMMEDIATE
Deadline for submission of full length paper	May 15, 2009
Notification of acceptance of full length paper	June 01, 2009
Due date of registration fee	July 01, 2009

Prospective participants are invited to communicate immediately to the Conference Organizer, **yhaddad@uottawa.ca**, their intention to participate in the Conference.

Venue & Sponsors Call Important Instructions for Papers Dates to Authors

Registration Conference Hotel Social Events Contact us

# **Instructions to Authors**

### **Abstract**

Please use Microsoft Word format (New Times Roman - font 12) in preparing your abstract. All abstracts will be acknowledged and notification of acceptance will follow shortly after the Abstract is submitted. At that time, the Conference template containing the instructions on how to prepare the full-length paper, as well as the Conference copyright-transfer form will be forwarded by e-mail to the authors of accepted abstracts.

Please forward your abstract by e-mail as soon as possible directly to one of the Conference Co-chairs at <a href="mailto:yhaddad@uottawa.ca">yhaddad@uottawa.ca</a> or becker@mechanik.tu.darmstadt.de.

### Full-length Paper

The full-length paper must not exceed five pages.

Your article should be written in English. Use only one style of English in the entire article. Your article should be clear and comprehensible.

Please use the "*Template*" to prepare your article. Papers not prepared strictly according to the instructions given on the "*Template*" may be returned to the Corresponding Author and would hence miss the production deadline for the proceedings.

Please submit your full-length paper by e-mail, as an attachment, to either of the Conference Co-chairs. Please include also in your submission the completed and duly signed "*Copyright Transfer Form*".

The notification of acceptance of the full-length papers will be communicated, by e-mail, to the corresponding authors before **June 01, 2009**.

For an accepted paper to be included in the conference program and proceedings, payment of the registration fee must be received not later than July 01, 2009. The Conference proceedings will be published under the prefix ISBN 0-9780479.

# Publishing Your Paper in the Refereed AES Technical Reviews International Journal (ISSN 1915-5409):

Authors who wish to publish their papers in one of the refereed AES Technical Reviews International Journals should indicate that by an email message to the Conference Organizer, at <a href="mailto:yhaddad@uottawa.ca">yhaddad@uottawa.ca</a>

Venue & Conference Hall Sponsors Call Important Instructions to Authors

Conference Conference Social Events Contact us

Registration Hotel Social Events Contact us

# Registration

Prospective participants must register and pay their registration fee before July 01, 2009 in order for their articles to be included in the conference program and appear in the conference proceedings.

Participants may pay their registration fee by direct deposit in the Conference' bank account, certified cheque, money order or by using Bank-wire transfer. The registration fee is to be made payable to **Advanced Engineering Solutions (Ottawa, Canada)**. Detailed instructions on "how to pay your registration fee" will be communicated, by the Conference Organizer, to the participant after her/his completed "*Registration Form*" is received by the Conference.

### Registration fee

### Early registration (received before April 01, 2009):

Session Organizers	€ 700.00
Authors and invited participants	€ 750.00

### Registration fee (received between April 01, 2009 and June 01, 2009):

Session Organizers	€ 750.00
Authors and invited participants	€ 800.00

### Registration fee (received between June 01, 2009 and August 01, 2009):

Session Organizers		€ 800.00
Authors and invited	participants	€ 850.00

### Registration fee (received after August 01, 2009):

Session Organizers	€ 850.00
Authors and invited participants	€ 900.00

### Student registration fee:

Please deduct €100.00 from the regular registration fee indicated above, provided that the student submits, at the time of registration, a proof of a full-time student status.

Registration fee for participants includes a copy of the proceedings, in CD-ROM format, attendance of the technical sessions, two coffee breaks and a light lunch daily during the Conference, welcome reception (with wine) on September 01, 2009 (evening) and multi-course gourmet banquet (with wine) on September 03, 2009 (evening).

Venue & Conference Hall	Sponsors	Call for Papers	Important Dates	Instructions to Authors
Registration	n	erence Social	Events Con	ntact us

# **Accommodation**

A list of suitable hotels at close proximity to the Conference site will be announced on a later date. It is expected that these hotels will offer a special room-rate to the Conference delegates. Some of the participants, however, may find it also convenient to make alternative accommodation arrangements in Hamburg.

# **Conference Hotel**

It is planned that the Conference would take place in "Fairmont Hotel Vier Jahreszeiten", Neuer Jungfernstieg 9-14, 20354 Hamburg, Germany. A confirmation will be announced at a later time.

### **Social Events**

September 2, 2009 (Evening)

Hamburg by night and dinner (Optional, with an additional fee)

September 4, 2009 (Evening)

The Port followed by Dinner (Optional, with an additional fee)

September 5 and 6, 2009

Discover Berlin and surroundings (on your own) – Highly recommended.

## **Contact Us**

For all information concerning AES-ATEMA Conference Series, please contact one of the Co-chairs of the Conference:

Professor Dr. Y. M. Haddad, P. Eng.

Organizer and Co-chair

DFG Mercator Professor,
Technical University of Darmstadt, Germany.
\*Professor of Mechanical Engineering
University of Ottawa
Ottawa, Canada K1N 6N5

yhaddad@uottawa.ca aesatema@gmail.com **Prof. Dr.-Ing. Wilfried Becker** 

Co-chair

Mechanical Engineering Technical University of Darmstadt, Germany

becker@mechanik.tu.darmstadt.de

Venue & Conference Hall

**Sponsors** 

Call for Papers Important Dates **Instructions** to Authors

Registration

Conference Hotel

**Social Events** 

Contact us