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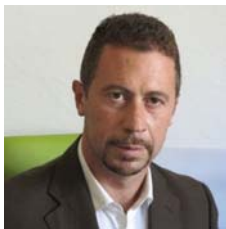
# applied computational **ACES** electromagnetics society

## Newsletter

June 2015

Applied Computational Electromagnetic Society (ACES)

### President's Message



Greetings from Pisa, Italy. Summer is almost here in Italy and we all desire some vacation time after the busy winter.

On the other hand, I would say that ACES society has never been as active as it is now during this particular time of the year.

We come from a great ACES 2015 conference held in Williamsburg for the second time (a location which we have

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### Become ACES Member

ACES membership offers

chosen for its culture, history and beauty). We had very good attendance, high technical level papers and speakers, and plenty of fruitful discussions during the different moments of the event. The detailed figures of the conference can be found further down in this newsletter.

As for our editorial activity, the ACES Journal keeps growing in terms of impact factor and two special issues have just been announced (with deadlines fixed on late September).

This summer we also have some great news: the ACES Express Journal is now taking off, two special issues have just been announced and the regular submissions are being received. Do not miss the chance to publish free-of-charge in the new ACES Express Journal if you submit by the 31st of August.

Last but not least: we are all getting ready to start working for the ACES 2016 conference in the fantastic Hawaii !!

Check out all the news on the [ACES website](#) and on the [ACES LinkedIn group](#) page.

### **Sami Barmada**

*President - ACES*

The University of Pisa, Italy

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### **New ACES Officers and Board Members**

As the 2-year term of Prof. Atef Elsherbeni ended, ACES Board of Directors (BoD) elected the current ACES Vice President, Prof. Sami Barmada as the President of the Society. Dr. Ulrich Jakobus was elected as the Vice President, and Dr. C.J. Reddy was elected as the Secretary of the Society.

Three new board members (Dr. Jianming Jin, Dr. Khaled ElMahgoub, and Dr. C. J. Reddy) were also elected by ACES members for a term of 3 years starting this year.

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### **ACES Journal Announces Open Access**

The ACES Journal is devoted to the exchange of information in computational electromagnetics, to the advancement of the state of the art, and to the promotion of related technical activities.

ACES Journal is now accepting papers with an optional choice of open access with a publication fee of \$200 for ACES members, and \$300 for non-members. The contributions must be submitted [online](#).

### **Read the latest Issue (June 2015)**

The following Special Issues of ACES Journal are announced:

- 1. Bio-Electromagnetic Methods and Applications**
- 2. Advanced Materials and Processes for RF and THz Applications**

many advantages that include access to ACES journal and discounted registration fees for ACES conferences.

#### Member:

Basic:\$40/year

Student/Retired:\$25/year

Life:\$400/year

#### Institutional Member:

Basic (US): \$360/year

Basic (Intl) \$540/year

Expanded (US):\$535/year

Expanded (Intl):\$715/year

Become ACES member by signing up [here](#).



DEADLINE FOR SUBMISSION IS **September 30, 2015**.

## **[ACES Announces New Open Access Express Journal](#)**

The ACES Express Online Journal is a new journal sponsored by ACES. The objective of ACES Express Journal is to allow for a rapid submission-to-publication timeline for the on-line publication of important findings, new approaches, investigations and results in the field of computational electromagnetics. ACES realizes the significance of timely dissemination of new findings, and has created this journal to satisfy this need.

ACES Express Online Journal is subject to the same rigorous peer-review process as the ACES journal, but provides authors a faster way of disseminating their findings in a concise format. The papers submitted as ACES Express Online papers are limited to a minimum of three and maximum of four printed pages in a double column format, with a publication fee of \$200 for ACES members, and \$300 for non-members. All submissions are reviewed within two months, and all contributions are published online within 90 days of the acceptance date. The journal is open to public access without any restriction or a need for membership in the society. The contributions must be submitted online at <http://aces-society.org> by choosing the "Express Journal Submission" from the pull down menu.

***Papers will be published free-of-charge in the new ACES Express Journal, if submitted by the 31st of August 2015.***

The following Special Issues of ACES Express Journal are announced:

- 1. Computational Electromagnetics and Measurements**
- 2. GPU Computing in Electromagnetics**

DEADLINE FOR SUBMISSION IS **September 20, 2015**.

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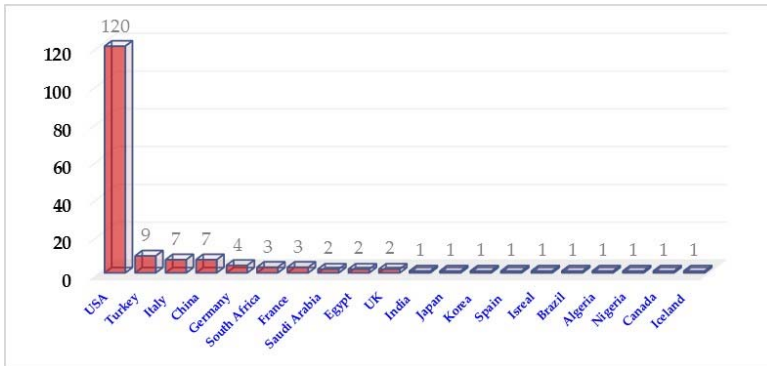
## **[ACES 2015 Conference Report](#)**

The 31st International Review of Progress in Applied Computational Electromagnetics (ACES 2015) was held in Williamsburg, Virginia from March 22nd to 26th, 2015.

Dr. C. J. Reddy of Altair Engineering Inc. and Dr. Khaled ElMahgoub of Trimble were the General Chairs of the conference. Dr. Veysel Demir of Northern Illinois University and Dr. Kubilay Sertel of the Ohio State University were the Technical Program Chairs. The IEEE Antennas and Propagation Society (APS) and Electromagnetic Compatibility Society (EMC-S) were the technical co-sponsors of ACES 2015 conference. ACES 2015 was attended by 169 attendees representing 20 countries around the world.

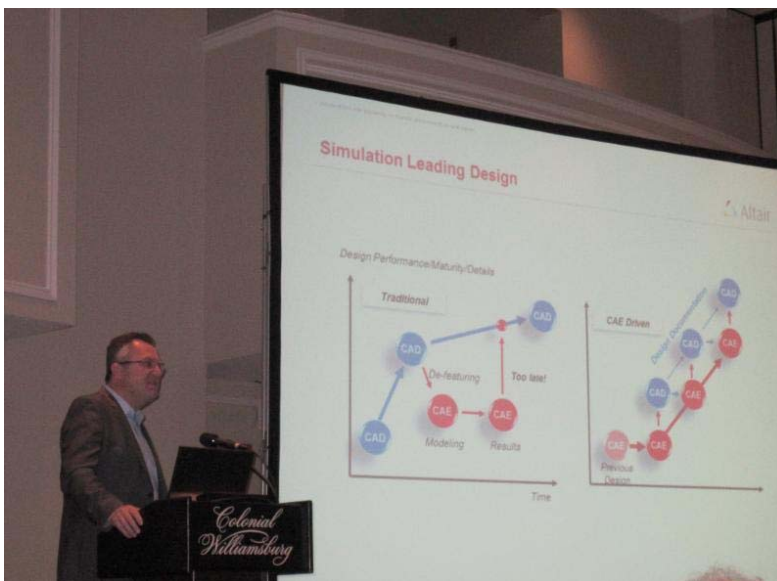


ACES 2015 General Chair, Dr. C. J. Reddy welcoming attendees



Attendees at ACES 2015 represented 20 countries

The keynote speaker at ACES 2015 was Dr. Uwe Schramm, Chief Technical officer at Altair Engineering Inc. Dr. Schramm's talk highlighted the trends in applying simulation to product design with multi-disciplinary optimization.



The keynote speech at ACES 2015 was given by Dr. Uwe Schramm, Chief Technical Officer at Altair Engineering, Inc.

Apart from the keynote speaker, the following were the Plenary Speakers at ACES 2015:

- Dr. Mahbub Hoque (Space & Terrestrial Communications Directorate (S&TCD), Communications-Electronics Research, Development & Engineering Center (CERDEC) - US Army) - Performing Radio Frequency Modeling & Simulation Analysis for Army Mission
- Prof. Randy Haupt (Department of Electrical Engineering and Computer Science Colorado School of Mines) - Optimization for Electromagnetics: The Best Solution
- Dr. Dejan S. Filipovic (Antenna Research Group University of Colorado Boulder) - Frequency Independent Antennas: Over a Half Century Journey of Bandwidth Unlimited Dreams
- Prof. Alireza Baghai-Wadji (Electrical Engineering Department at the University of Cape Town (UCT), Cape Town, South Africa) -Taming Infinities and Unveiling Grand Challenges in Computational Electromagnetics
- Prof. Manos M. Tentzeris (The School of Electrical and Computer Engineering Georgia Institute of Technology) - Inkjet-Printed Nanotechnology-enabled Wireless Communication, Sensing and Identification Nodes for Internet of Things, "Smart Skin" and "Zero-Power" Applications
- Prof. Magdy F. Iskander (Hawaii Center for Advanced Communications College of Engineering, University of Hawaii at Manoa) - Computational Electromagnetics: Vision for Seizing Opportunities in Growing Technologies

ACES 2015 conference included a total of 150 technical papers presented in 26 sessions along with 11 regular tutorials and 3 vendor tutorials. Both regular and vendor tutorials were free to all conference attendees.

As it is the tradition at all ACES conferences, a student paper competition was held at ACES 2015. A total of 20 papers were submitted to the student paper competition. Out of these papers submitted to the student paper competition, 10 were selected as finalists. Prof. Jiming Song of Iowa State University chaired the competition. The following 5 papers were chosen for awards:

- **First Prize:** Tianjian Lu and Jian-Ming Jin, "Transient Electrical-Thermal Co-Simulation in the Design of On-Chip and 3-D Interconnects", University of Illinois at Urbana-Champaign
- **Second Prize:** Bangda Zhou and Dan Jiao, "Direct Finite Element Solver of Linear Complexity for Analyzing Electrically Large Problems", Purdue University
- **Third Prize:** Yan Lin Li, Sheng Sun, and Weng Cho Chew, "Finite Element Implementation of the Generalized-Lorenz Gauged A-Phi Formulation for Low-Frequency Circuit Modeling", The University of Hong Kong
- **Fourth Prize:** Vinh Dang and Ozlem Kilic, "A Compressive Sensing Based Approach for Through-Wall Tracking of Moving Targets", The Catholic University of America, Washington, DC
- **Fifth Prize:** Qi Zeng, Jianfeng Zheng, and Ji Chen, "MRI



Induced Heating for Fully Implanted, Partially Implanted and Minimum Implanted Medical Electrode Leads", University of Houston.

SciTech Publications donated a free book to all the finalists of the student paper competition.



Student Paper Competition participants with Prof. Jiming Song of Iowa State University

The conference banquet was held on Wednesday, March 25, 2015. The banquet gala started with the Fife and Drums of Colonial Williamsburg leading the group into the banquet hall. As attendees enjoyed the dinner, they were entertained by balladeers of Colonial Williamsburg. Conference attendees were also treated to a surprise guest - General George Washington, who led the revolutionary army against British forces. General Washington (portrayed by a knowledgeable actor) took questions from the audience.



Fife and Drums of Colonial Williamsburg performing before the Banquet



General George Washington (portrayed by a knowledgeable actor) took questions from the audience

At the Banquet, Prof. Jianming Jin, University of Illinois at Urbana-Champaign, Prof. Abd A. Arkadan, Marquette University and Prof. Magdy F. Iskander, University of Hawaii at Manoa were given their ACES Fellow Awards. Also the following ACES awards were presented:

- **ACES Computational Electromagnetics Award:** Prof. Weng Cho Chew of University of Illinois at Urbana-Champaign, for his pioneering contributions to fast algorithms for electromagnetic scattering and inverse scattering methods.
- **ACES Technical Achievement Award:** Prof. Douglas H. Werner of the Pennsylvania State University, for his pioneering the wide-spread use of global optimization techniques for antenna array and metamaterial design.
- **ACES Meritorious Service Award:** Prof. Alistair Duffy of De Montfort University, for his outstanding service to ACES activities including Editor in Chief for ACES Newsletter and Associate Editor-in-Chief for ACES Journal.
- **ACES Early Career Award:** Dr. Zhen Peng of the University of New Mexico, for his outstanding contributions to domain decomposition methods in computational electromagnetics.
- **Valued Service Award:** Prof. Fan Yang, for serving as Associate Editor-in-Chief for ACES Journal

## **ACES 2016**

ACES 2016 will be held jointly with the IEEE International Conference on Wireless Technology and Systems (ICWITS) in Honolulu, Hawaii during March 13-17, 2016. The joint conference will be organized by Prof. Magdy F. Iskander, University of Hawaii at Manoa. Call for papers is available [here](#). Plan to submit a paper and attend the conference.

An exciting technical and social program is being planned !!

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ACES is looking forward to your contributions to the ACES Journal and the Express Journal as well as your participation in the ACES 2016 Conference. We look forward to your feedback and involvement in ACES activities.

Sincerely,

**C.J. Reddy**  
**Kubilay Sertel**  
**Khaled EIMahgoub**  
*Editors - ACES Newsletter*

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