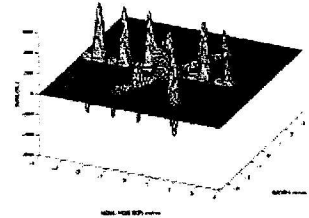


CALL FOR PAPERS

ACES Web Site: <http://aces.ee.olemiss.edu>



THE APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY

The 18TH Annual Review of Progress in Applied Computational Electromagnetics

March 18 - 22, 2002

Naval Postgraduate School, Monterey, California

Classical electromagnetic field theory is already a mature branch of Theoretical Physics. Quite to the contrary, the relatively new engineering discipline of Applied Computational Electromagnetics (CEM) is a very dynamic and evolving field. Indeed, research in CEM is continuously generating practical and efficient new solutions for the analysis, design, development and measurement problems posed by increasingly complex systems. The pace of evolution in applied computational electromagnetics is monotonically escalating, driven by the ever-increasing and unrelenting requirements of new applications in such fields as global *EM* communications, radar, remote sensing, high-power microwaves (*HPM*), high-speed computers, and large-scale nuclear physics facilities.

The annual *ACES* Symposium has been also continuously evolving from its rather modest origins, and is now recognized as the most influential and authoritative international forum in the field of CEM, where leading scientists and engineers convene annually to present the results of their most recent research efforts, and to share those results with their peers worldwide.

The annual *ACES* Symposium combines high scientific level and practical engineering emphasis to present a review of the most recent developments. International participation by non-members is welcome and strongly encouraged. The annual *ACES* Symposium is indeed *the premier* forum where the dynamic, vibrant progress in Applied Computational Electromagnetics is extensively reviewed, reported, and documented for archival reference.

The following matrix of hot topics, applications, methods and computational tools is merely intended to exemplify the extent of *ACES* interests by listing some of the most popular session subjects:

| Typical Hot Topics | Applications | Methods | Computational Tools |
|--|--------------------------|--------------------|-------------------------------|
| Fast Hybrid Methods | Antennas | FDFD | New Codes or Languages |
| Modal Expansions | Phased Arrays | FEFD | New Computers/WorkStations |
| Domain Decomposition Methods | Adaptive Arrays | FDTD | High-Speed Computer Clusters |
| Symmetry Analysis & Applications | Beam Forming Networks | FETD | Graphic Domain-Definition |
| High Performance Computing | Radar Tracking | Modal Expansions | Output Data Post-Processing |
| Unstructured Meshes | Radar Imaging | TLM/Wavelets | Parallel Processing |
| Multiple Parallel Processors | Radar cross section | Symplectic Integr. | Diff. Equation Techniques |
| Large Scale Microwave Structures | Microwave components | Diakoptics | Moment Methods |
| Generalized Scattering Matrix (<i>GSM</i>) | Communications systems | GTD | Object-Oriented Programming |
| Multi-Mode Analysis | Satellite Communications | Physical Optics | Visualizations |
| Inverse Scattering | Wireless Communications | Integral Eqns. | Virtual Reality in Elec. Mag. |
| Non-Commutative Symbolic Comp. | High Power Sources | EFIE/MFIE | Differential Algebra |
| High Power Microwave Sources | Particle Accelerators | Perturb. methods | Inv. of Structured Matrices |
| MIMIC Interconnect Technologies | Fiber Optics | Hybrid methods | Code Validation |
| Susceptibility & Survivability | Bio-Electromagnetics | Numerical Optim. | High Order Taylor Maps |

SYMPOSIUM STRUCTURE: The annual *ACES* Symposium traditionally takes place during the third week of March, and includes, in addition to formal sessions for oral presentation of submitted papers: (1) a poster session, (2) a student paper competition, (3) numerous short courses (both *full-day* and *half-day*), (4) an awards banquet, (5) vendor exhibits, and (6) a wine and cheese social. The *ACES* Symposium also includes three Plenary Sessions, where illustrious invited speakers deliver original essay-like reviews of hot topics of their own choice.

EARLY REGISTRATION FEES

(for registration prior to March 1, 2002)

| | | | |
|-------------|-------|----------------------------|------------------------------|
| ACES member | \$310 | Student/Retired/Unemployed | \$130 (no proceedings) |
| Non-member | \$365 | Student/Retired/Unemployed | \$165 (includes proceedings) |

Each conference registrant is entitled to publish two papers in the proceedings free of charge. Excess pages over the limit of eight (8) pages for each paper will be charged \$25/page.

PAPER FORMATTING REQUIREMENTS

The recommended paper length is 6 pages, with 8 pages as a free maximum, including figures. The paper should be camera-ready (good resolution, clearly readable when later photo-reduced to the final proceedings format of 6x9-inch paper). The submitted papers should be formatted for printing on 8.5x11-inch U.S. standard paper, with 13/16 inch side margins, 1-1/16 inch top margin, and 1 inch margin at the bottom. On the first page, the title should be 1-1/2 inches from top with authors, affiliations, and e-mail addresses beneath the title. Use single line spacing, with 10-12 point font size. The entire text should be fully justified (flush left and flush right). No typed page numbers, but sequential page numbers must be inserted as *non printing Acrobat Annotations*. Electronic submission of full photo-ready finished papers is required, in Acrobat 4.0 or 5.0 format only (*.pdf). All papers must strictly conform at the time of submission to the detailed electronic format specifications described on the ACES Web Site.

SUBMISSION DEADLINE

Submission deadline is **November 16, 2001**. The signed ACES copyright-transfer form, and a payment covering the registration for at least the corresponding author must be provided at the time of paper submission. Authors of rejected papers, who choose not to attend the conference, will receive a refund of their registration fee. **Authors will be notified of acceptance on or about December 15, 2001.**

\$500 BEST-PAPER PRIZE

A \$500 prize will be awarded to the authors of the best non-student paper accepted for the 18TH Annual Review. Papers will be judged by a special ACES prize-paper committee, considering the following criteria:

1. EM/CEM theory and technical content correctness.
2. Reliable data.
3. Computational EM component and results.
4. Practical applications value.
5. Estimates of computational errors.
6. Significant new conclusions.

\$300 BEST STUDENT PAPER CONTEST

This will be for the best student paper accepted for the 18TH Annual Review. Student presentation at conference is required. Submissions will be judged by three (3) members of the ACES Board of Directors. Prizes for the best student paper include: (1) one free Annual Review registration for the following year; (2) one full-day, or two half-day, free short course(s) taken during the 2002 or 2003 Annual Review, and (3) \$300 cash.

Ross A. Speciale - Technical Program Chairman

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2002 ACES Symposium Sponsored by: ACES, Naval Postgraduate School, Iowa State University, University of Mississippi, Michigan State University, Georgia Institute of Technology and South West Research Institute, in cooperation with: The IEEE Antennas and Propagation Society, IEEE Electromagnetic Compatibility Society, and the United States National Committee of URSI.

| Symposium Co-Chairs | Electronic Publication Chair | Symposium Administrator | Short Course Chair | Exhibits Chair | Publicity Chair |
|---|--|---|---------------------------------------|---|---|
| Leo C. Kempel Michigan State University | Atef Elsherbeni University of Mississippi | Richard W. Adler Naval Postgraduate School | John Schaeffer Marietta Scientific | S. Balasubramaniam Iowa State University | Keith A. Lysiak Southwest Research Institute |
| Andrew F. Peterson Georgia Institute of Technology | | | | | |

STUDENT BEST PAPER CONTEST

**This will be for the "Best Paper"
submitted for publication in the 2002,
18th Annual Review of Progress.**

(Student must be presenter on the paper chosen).

**Submissions will be judged by three (3)
members of the ACES BoD during the 18th
Annual Review presentations.**

**The prizes for the Student presenter will
consist of: (1) \$300 cash; (2) free Annual
Review registration for the following year;
and (3) one free Annual Review short
course for the following year.**

MOTELS / HOTEL LIST FOR MARCH 2002 ACES SYMPOSIUM

18-22 MARCH 2002

** (WITHIN WALKING DISTANCE OF NPS)

NOTE! THERE IS NO CONTRACTS AT THIS TIME BETWEEN ACES AND THE HOTELS/MOTELS. THESE PRICES MIGHT POSSIBLY CHANGE!

FIRESIDE LODGE ()** (1 star)
1131 10th St. Monterey, CA 93940
Phone: (831) 373-4172 FAX: (831) 655-5640
Rates: **Govt** and **Conf.** \$89 + tax

STAGECOACH MOTEL ()** (1 Star)
1111 10th St. Monterey, CA 93940
Phone: (831) 373-3632 FAX: (831) 648-1734
Rates: **Govt.** \$74.- **Conf.** \$79 + tax

MONTEREY BAY LODGE ()** (2 Star)
55 Camino Aguajito, Monterey, CA 93940
Phone: (831) 372-8057 FAX: (831) 655-2933
Rates: **Govt.** and **Conf.** \$44.10 + tax

MONTEREY HILTON ()** (3 Star)
1000 Aguajito Rd. Monterey, CA 93940
(831) 373-6141 FAX: (831) 375-2367
Rates: **Conf.** \$139 + tax (**no govt price**)

HYATT HOTEL & RESORT ()** (4 Star)
1 Old Golf Course Rd. Monterey, CA 93940
Phone: (831) 372-1234 FAX: 375-6985
Rates: **Govt.** \$75.- 146; **Conf.** \$159 + tax

most rates apply for Mon thru Thursday

- (1) MOTELS WEEKEND RATES MAY BE HIGHER THAN WEEKDAYS. (2) MENTION THAT YOU ARE ATTENDING THE "ACES" CONFERENCE AT NPS WHEN BOOKING (3) CUT OFF DATE FOR CONFERENCE RATES IS USUALLY ONE MONTH PRIOR TO START OF CONFERENCE. (CHECK WITH THE HOTEL IF YOU NEED SPECIAL ARRANGEMENTS) (4) ATTENDEES ON GOVT ORDERS DO NOT PAY TAX. ATTENDEES PAYING CONF. RATE, PAYS TAX)

IMPORTANT INFORMATION FOR ACES ATTENDEES, PLEASE READ

Hotel room tax exemption requires all of the following documents: (1) Travel Orders, (2) Payment by government issued AMEX/VISA card; (3) Govt./Military identification. Regarding Govt orders: prevailing per diem lodging rate at time of arrival will be honored. Attendees on Govt. orders do NOT pay city tax; every other attendee pays city tax! When you book a room, mention that you are attending the "ACES" Conference, at NPS, and ask for either Government, or Conference rates.

There is NO PARKING at the Naval Postgraduate School or on nearby streets, so we advise you to book a room within walking distance, or plan to use a taxi. The GATES ARE GUARDED. To enter the base you must have two forms of govt. approved ID; have PRE-REGISTERED FOR THE CONFERENCE, by at least 1 day; before conference commences, so your name can appear on an approved list 24 hours before you may enter the base. Your vehicle will probably be inspected, due to the heightened security due to the 9/11/01 terrorism attacks. Please refer to the ACES Presidents Message on page 4 of this Newsletter **for further information.**

AIRLINE INFORMATION

The following airlines make connections from Los Angeles/San Francisco, to Monterey, CA: United Express, and American Eagle. Both fly a 30-35 passenger Prop. Jet Airplane. American Eagle, serves Los Angeles to Monterey, but not San Francisco to Monterey. United Express serves Monterey from both LA and SFO. There is no airline connection directly from San Jose, CA to Monterey, CA.

FLYING FROM SAN JOSE OR SAN FRANCISCO? MONTEREY/SALINAS AIRBUS

Departs every two hours from San Francisco for San Jose Airport, Salinas, and Monterey. Rate is \$30.00 per person, one way. Reservations recommended. Cash/Credit Card accepted. Departs as early as 7 am from SFO. For more information, phone 831-883-2871

THINGS TO DO AND SEE IN THE MONTEREY BAY AREA

There are many activities for children and adults not attending the Conference. The colorful blue Monterey Bay is a vision of historic Monterey, rich with natural beauty and many attractions from Fisherman's Wharf, (be sure to try the seafood cocktails), to Cannery Row; the Monterey Adobes and city parks; the Monterey Bay Aquarium, (did you know that there is a deep canyon in the Monterey Bay? Check it out!);