

PIERS 2005

Progress in Electromagnetics Research Symposium

August 22 – 26, 2005

Hangzhou, CHINA

CALL FOR PAPERS

PIERS (Progress in Electromagnetics Research Symposium) provides an international forum for reporting progress and recent advances in all aspects of electromagnetics. Spectra range from statics to RF, microwave, photonics, and beyond. Topics include radiation, propagation, diffraction, scattering, guidance, resonance, power, energy and force issues, and all applications and modern developments. Potential session organizers are welcome to propose specific technical topics by filling out the PIERS survey at website <http://piers.org>.

SUGGESTED TOPICS:

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| 1. Electromagnetic theory | 17. Microwave remote sensing and polarimetry, SAR |
| 2. Computational electromagnetics, hybrid methods | 18. Subsurface imaging and detection technology, GPR |
| 3. Spectra, time, and frequency domain techniques | 19. Active and passive remote sensing systems |
| 4. Fast iteration, large scale and parallel computation | 20. EM signal processing, wavelets, neural network |
| 5. Transmission lines and waveguide discontinuities | 21. Rough surface scattering and volume scattering |
| 6. Resonators, filters, interconnects, packaging, MMIC | 22. Remote sensing of the earth, ocean, and atmosphere |
| 7. Antenna theory and radiation | 23. Scattering, diffraction, and inverse scattering |
| 8. Microstrip and printed antennas, phase array antennas | 24. Microwave and millimeter wave circuits and devices, CAD |
| 9. Mobile antennas, conformal and smart skin antennas | 25. Optics and photonics, lasers, gyrotrons |
| 10. RF and wireless communication, multipath | 26. Quantum well devices, microwave photonic systems |
| 11. Power electronics, superconducting devices | 27. Medical electromagnetics, RF biological effects, MRI |
| 12. Systems and components, electromagnetic compatibility | 28. Fiber optics, optical sensors, quantum computing |
| 13. Nano scale electromagnetics, MEMS | 29. Biological media, composite and random media |
| 14. Magnetic levitation, transportation and collision avoidance | 30. Plasmas, nonlinear media, fractal, chiral media, LHM |
| 15. Precision airport landing systems, GPS | 31. Constitutive relations and bianisotropic media |
| 16. Radar sounding of atmosphere, ionospheric propagation | 32. Moving media, relativity, field quantization, and others |

ONE-PAGE ABSTRACT MUST BE RECEIVED BY DECEMBER 10, 2004

Paper Guidelines:

Authors are invited to submit a **one-page** abstract of no less than 250 words in English. No full-length paper is required. The abstract should explain clearly the content and relevance of the proposed technical contribution, require no copyright transfer agreement, and contain no acknowledgements. Below the abstract, on a separate page list the following information: (1) Title of the paper, (2) Name of the author(s), (3) Affiliation(s), (4) E-mail address of each author, (5) Complete mailing address, (6) Telephone / Fax number, (7) Corresponding author and presenting author, (8) Topic or Session organizer, if applicable. (9) State if poster presentation is preferred.

Paper Submission:

We strongly recommend that you use On-Line-Submission (<http://piers.org>) to submit your abstract or via email (tpc@piers.org and/or piers@ewt.mit.edu) by attachments. Authors are recommended to use *.pdf, *.doc, or *.tex as the file format. The abstract deadline is **Dec. 10, 2004**. If by mail or fax, please sent to

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PRESENTING AUTHOR MUST PRE-REGISTER BY MARCH 10, 2005

Registration:

We strongly recommend that you use On-Line-Registration (<http://piers.org>) to pre-register. Each presenting author must pay a non-refundable registration fee and is limited to pre-register for no more than three papers. Before March 10, 2005, the pre-registration fee is US\$357 and for students with valid identification, US\$175. After March 10, 2005 and during the symposium the registration fee will be increased to US\$395 and for students US\$195. The abstracts will be posted in its entirety on the web at <http://piers.org> after the pre-registration is completed. Only pre-registered abstracts will be scheduled in the symposium program.

Participant	Before March 10, 2005	After March 10, 2005
Regular	US\$357	US\$395
Student	US\$175	US\$195

Extended Papers:

Authors of accepted abstract may (but are not required to) submit an extended paper to be published in the Journal of Electromagnetic Waves and Applications (on SCI database). Extended papers must follow the format as described in the web and will be subject to a peer review process. Extended papers must be submitted before 5 March 2005 and will not be printed if the presenting author does not complete pre-registration by 10 March 2005.

ABOUT HANGZHOU *Heaven on Earth*

Hangzhou, one of the financial and commercial centers in China, is located on the low reaches of Qiantang River in southeast China and 180 kilometers from Shanghai. Over the course of thousands of years, Hangzhou has been famous for the West Lake it hosts, one of the most elegant lakes in the world, with a neighborhood that blends the famous hilly and aqueous scenery, as well as historical and cultural sites. Radiance and beauty is perceivably resonated by the "double ten scenic spots". Predictably, the natural beauty of Hangzhou has helped lay the foundation as one of the cradles of Chinese civilization; its unique "Liangzhu Culture" can be dated back to 4700 years ago. At its peak, Hangzhou had served as the capitals of Wu and Yue kingdoms of Five Dynasties during the 10th Century and of Southern Song Dynasty during the 12-13th Century. Its continuing preeminence nowadays as capital of Zhejiang province, one of the most prosperous provinces in a country that has been stunning the world with its steaming economy, underscores its role as the center of provincial politics, economy, culture, science and education. The tourists may take advantage of its comprehensive transportation system, composed of airlines, railways, highways and taxis to enjoy a safe, convenient and inexpensive trip to Hangzhou. Once in the city, they may find in addition to the tempting landscape, various items are simply irresistible to grab, such as silk and Longjing (Dragon Well) tea which are among the finest in the world. No wonder the famous Italian traveler Marco Polo (1254-1324) described this city as "the finest and most splendid city in the world." The same opinion was echoed in the following poem by famous poet Su Dongpo (960-1127) of Song Dynasty, where he compared the West Lake to Xizi, the acknowledged most beautiful woman in ancient China,

*"Ripping water on sunny day shimmering;
Mountains shroud mist while raining;
Plain or gaily decked out like Xizi;
West Lake is always alluring."*

