



# 11<sup>th</sup> International Workshop on Finite Elements for Microwave Engineering – FEM2012

June 4-6, 2012, Estes Park, Colorado, USA

<http://www.engr.colostate.edu/FEM2012>

## FIRST CALL FOR PAPERS

**Abstract Submission Deadline: Friday, December 16, 2011**

**General:** The International Workshop on Finite Elements for Microwave Engineering is a highly-focused biannual event. It provides an ideal meeting place for researchers who are active in either the theoretical development of finite element methods or their application to radio frequency and microwave engineering problems.

**Venue:** The workshop will be held in The Historic Stanley Hotel, in Estes Park, Colorado – for information about the venue and social program, see the second page (turn the page).

**Scope:** Technical areas covered by the workshop include, but are not limited to:

- **Adaptive Methods**
- **Advanced FEM Techniques** Formulations, Solvers, Discrete Representations
- **Optimization Techniques, Parameter Space Sweep**
- **Time Domain FEM** Theory and Applications
- **Mathematical Aspects of FEM**
- **FEM Applications:** Antennas, Materials and Metamaterials, Bio-Electromagnetics, Electromagnetic Compatibility, Circuits and Circuit Boards
- **Hybrid Methods – Theory and Applications:** FE-BI/FDTD, FE-FV/Circuit Simulators/High-Frequency Techniques, Coupled Physics FEM for RF-MEMS
- **FEM Modeling:** Waveguides, Components, Active Devices, Lumped Elements
- **Multigrid and Domain Decomposition Methods**
- **CAD / Meshing Advances and Tools**
- **Design Using FEM and Hybrid Techniques**
- **FEM Applications in Other Disciplines**

**Abstracts:** One-page abstracts are due by Friday, December 16, 2011.

**Publication:** Selected workshop contributions will be published in a special issue of journal *Electromagnetics*.

**General Chairs:**

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Urbana-Champaign, USA; Z. J. Cendes, Ansoft LLC., USA; D. B. Davidson, University of Stellenbosch, South Africa; R. Dyczij-Edlinger, Universität des Saarlandes, Germany; R. L. Ferrari, Trinity College, UK; J. Jin, University of Illinois, Urbana-Champaign, USA; L. Kempel, Michigan State University, USA; J.-F. Lee, Ohio State University, USA; R. Lee, Ohio State University, USA; G. Pelosi, University of Florence, Italy; T. Rylander, Chalmers University of Technology, Sweden; M. Salazar-Palma, Universidad Carlos III de Madrid, Spain; J. L. Volakis, Ohio State University, USA; M. N. Vouvakis, University of Massachusetts, USA; J. P. Webb, McGill University, Canada; T. Weiland, Technische Universität Darmstadt, Germany; J. Zapata, Universidad Politécnica de Madrid, Spain.



**Turn the Page for Info about the Venue and Social Program**



# FEM2012 Workshop, Estes Park, Colorado, June 4-6, 2012 About the Venue and Social Program (Preliminary)



The Stanley Hotel, <http://www.stanleyhotel.com>, is a historic landmark hotel in a spectacular mountain-view location, offering old-world charm matched with the latest of modern amenities. Located at an elevation of 7,500 feet (2,286 meters) and within sight of the Rocky Mountain National Park, it was built in 1907-1909 by the inventor of the Stanley Steamer automobile (which is on display in the hotel lobby). It inspired Stephen King to write *The Shining*, and served as a location site for several movies. The popular Stanley Hotel Ghost & History Tour is included in the workshop package.

Estes Park, <http://www.estesparkcvb.com>, an hour from Fort Collins or Boulder, and hour and a half from Denver International Airport, is one of the most beautiful vacation towns in the US, with numerous galleries, shops, and restaurants, along with majestic nature and abundant wildlife.

The bus tour of Rocky Mountain National Park, <http://www.nps.gov/romo>, on the third day (included in the workshop package) will feature (preliminary plan) a drive along Trail Ridge Road (the highest continuous motorway in the US), visits to Continental Divide, to the “Land Above the Trees” [reaching 12,183 feet (3,713 m) above sea], with a lot of snow (and sun) in June (see <http://www.rmnp.com>), a visit to the Alluvial Fan, and a lunch at Bear Lake, one of the most photographed spots in Colorado.

The shuttle transportation from Denver International Airport to Estes Park (Stanley Hotel) and back to DIA (the shuttle takes about 1h 30 mins), as well as the food during the entire workshop and the banquet dinner (in a haunted hotel ballroom), is included in the workshop package.

