



Madison Section NEWSLETTER

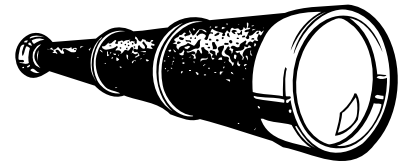
Volume 3, Number 3

Serving IEEE Members of South Central Wisconsin

March 2000

Astronomy at UW-Madison: 120 Years on the Frontier

- Date/Time:** Thursday, March 16, 2000, 11:45 AM - 1:00 PM
Speaker: Dr. Jim Lattis, Director of UW Space Place
Location: UW Space Place, 1605 S. Park Street, Madison, Tel: 262-4779
Menu: Pizza and soft drinks (cost \$8.00)
RSVP: by March 13th to Roy Thompson via email (roy.thompson@tdstelecom.com) or call 608/664-4415



Non-member guests are always welcome!

Presentation & Self Guided Tour: The presentation will begin with an historical overview of the founding of the Washburn Observatory, located on Observatory Drive overlooking Lake Mendota on the UW-Madison campus. Its key role in the development of modern astrophysics, and how that work led into space astronomy and the founding of the Space Astronomy Laboratory, will be discussed. Opportunity will be provided after the presentation for short self-guided tours of the Space Place.

Dr. Jim Lattis is director of UW Space Place, which he co-founded in 1990. He presently works with the Space Astronomy Laboratory and Astronomy Dept. to develop science education and outreach programs for schools, school teachers, and the general public. Jim has graduate degrees in physics and the history of science and teaches introductory courses in astronomy, history of science, and history of astronomy on the UW-Madison campus. He has also taught at Marquette University and spent two great years in Rome pursuing research on the history of astronomy in the 16th and 17th centuries. Jim is also an amateur astronomer and amateur radio enthusiast.

Joint IEEE Madison Section/IEEE Student Section Meeting

- Date/Time:** Tuesday, April 11, 2000, 6:00 PM - 7:15 PM - tentative date and time

Non-member guests are always welcome!

Presentation topic, speaker, location and menu to be determined.

Building a 16,000 Ton Experimental (CMS) Detector for Physics Research

- Date/Time:** Thursday, May 18, 2000, 11:45 AM - 1:00 PM
Speaker: Farshid Feyzi, Technical Director, UW Physical Sciences Laboratory
Location: Rocky Rococo's Pizza, 7952 Tree Lane (Madison Beltline Hwy. at Mineral Pt. Rd.), Ph 829-1444
Menu: Pizza buffet, salad and soft drinks (cost \$8.00)
RSVP: by May 15th to Roy Thompson via email (roy.thompson@tdstelecom.com) or call 608/664-4415

Non-member guests are always welcome!

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The Compact Muon Solenoid (CMS) is one of two large detectors under construction for the Large Hadron Project (LHC) at CERN (European Nuclear Research Center) in Switzerland. LHC is the one of the largest high energy physics projects ever undertaken and seeks to advance our understanding of the nature of matter. The CMS detector is a very large and complicated structure with numerous engineering challenges. This presentation will give an overview of the project and highlight some of these challenges and the adopted solutions.

Farshid Feyzi is the Technical Director at the Physical Science Laboratory (PSL) of the University of Wisconsin. PSL is a design, development and construction facility with nearly 35 years of experience in the various fields of research. PSL has a large multi-national client base and a staff of very experienced engineers and scientists. Farshid has worked at PSL for 16 years starting at as mechanical engineer. As Technical Director he is responsible for all technical operations and direction of projects.

EMC Fest To Be Held In Southeastern Michigan

The Southeastern Michigan Chapter of the IEEE Electromagnetic Compatibility (EMC) Society will sponsor a colloquium and exhibition on low-cost, easy to use EMC development test methods on Tuesday, May 9, 2000 in Dearborn, Michigan at the Dearborn Inn. The topics include EMC standards update, inductance and EMC, signal integrity and EMI, EMC troubleshooting techniques, and advanced EMC issues. The event will also feature industry-renowned speakers, Henry Ott and Doug Smith.

Registration is limited and special pricing is available for IEEE members. For further information contact Kimball Williams, Chair, Technical Program & Registration: 248-354-2845, k.williams@ieee.org or Janet Nichols O'Neil, Vice-Chair, Exhibits: 425-868-2558, j.n.oneil@ieee.org

First IEEE Electro/Information Technology Conference

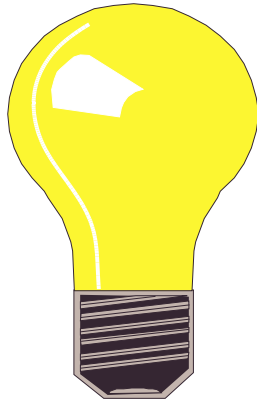
The first Electro/Information Technology Conference, sponsored by the IEEE Region IV, will be held in Chicago at the Chicago Marriott Hotel, June 8-11, 2000. This is the first technical conference where researchers and industrial colleagues focusing on presenting basic/applied research results in the fields of electrical and computer engineering as they relate to Information Technology, can present their latest findings.

For further information, visit the conference web site at <http://www.ewh.ieee.org/reg/4/eit2000.htm> or contact Dr. Hossein Mousavinezhad, General Chair, hossein.mousavinezhad@ieee.org

Electrification Said To Have Made Greatest Impact On Quality Of Life

Electrification leads the list of the 20 engineering achievements that have had the greatest impact on the quality of life in the 20th century. Announced today by astronaut/engineer Neil Armstrong on behalf of the U.S. National Academy of Engineering, the list of accomplishments reflects nearly all of the nominations submitted by the IEEE History Center based on input from IEEE members. Here are the top 20 achievements named by the NAE:

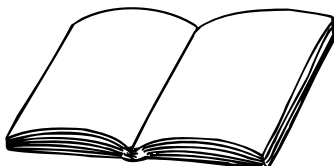
1. electrification
2. automobile
3. airplane
4. safe water supply and treatment
5. electronics
6. radio and television
7. agricultural mechanization
8. computers
9. telephone
10. air conditioning and refrigeration
11. interstate highways
12. space exploration
13. Internet
14. imaging: X-rays to film
15. household appliances
16. health technologies
17. petroleum and natural gas technologies
18. laser and fiber optics
19. nuclear technologies
20. high-performance materials



For more information about these achievements, visit the Web site at <http://www.greatachievements.org>. An article on "The Electrical Century" by IEEE History Center director Michael Geselowitz will also appear in the March issue of "The Institute."

Half-Year Memberships Begin 1 March

Membership applications received by the IEEE, including technical society memberships, as of 1 March will be processed on a "half year" basis with dues at half of the regular annual rate. Those who join after 1 March will become members through 31 Dec and will receive all publications from the time their applications are entered into the database but will not receive back issues.



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Department of Engineering Professional Development

Spring 2000 Telecommunications Short Courses

- **Engineering and Planning Telecommunications Local Loop Facilities, March 29–31**
- **Basic Telephony and Digital Switching, April 17–20**
- **Planning and Implementing Point-to-Point Microwave Radio Systems, May 1–3**
- **Advanced Topics in Operating Cellular and PCS Wireless Systems, May 9–12**
- **Using the IS-136 TDMA Wireless Air Interface, June 13–16**

For further information...

Web: epd.engr.wisc.edu or E-mail: danbeck@engr.wisc.edu

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