



"MINI"-conductor

DAYTON SECTION
IEEE



140 E. MONUMENT AVE.
DAYTON, OHIO 45402

Volume XXVII, Number 3

Mar. 1998

EXECUTIVE COMMITTEE MEETING

Place:

**EASTTOWN
PLAZA IEEE
OFFICE**

Date: MONDAY MARCH 9

Note: Mar 9, is the 2nd
****Monday****

Meeting Time: 6:30 PM

The IEEE Office on Linden Ave was painted and cleaned up during January. It is planned to hold future meetings at this facility, beginning on March 9, 1998

Directions:

Easttown Plaza is located on Linden Ave. between Woodman and Smithville. (Linden runs parallel to Route 35)

The center of Easttown Plaza is 2 stories. Enter the double glass doors in the center (Look for Olin Mills signs). Take stairs to second floor. The IEEE Suite is last on the right.

A Joint IEEE Meeting for:

Power Engineering, Industry Applications, and Power Electronics Societies

Energy Efficiency In Products Design

Presented by Manning Rose, P.E,
NCR Corporation

Tuesday, March 17, 1998

Meet for social hour and dinner at 5:45 PM at Carillon Cafeteria,
2611 S. Dixie Blvd.

Join us for the presentation at 7:00 PM.

For more information, please call:

Suzette Albert 445-0515 or Nebi Girma 331-4225



March AESS Executive Meeting

Call for Date & Time Walnut Grove Country Club
Call Trina Burnejko at 255-1230 for info

The Dayton Section Awards Banquet

will be held March 28
at Sinclair Community College

Make plans now to attend

See Page 8 for more information

Join Friends & Eat, Drink and Be Merry!



Computer Society Meeting Information

For March Topic, Time & Date information....

Contact Yi Pan 229-3807 or pan@udcps.cps.udayton.edu

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IEEE Dayton Section HOME Page

Check out the Dayton Home Page at
<http://www.erinet.com/dayiee>

Georgia Tech upcoming short courses

April and May 1998

For more information email:

conted@gatech.edu; or
www.conted.gatech.edu

- * Phased-Array Radar System Design
- * Principles of Test and Evaluation with Applications to electronic Defense
- * Principles of Electronic Counter-Countermeasures
- * Infrared Countermeasures
- * Grounding Systems Design and Testing with EPRI's Smart Ground Multimeter
- * Electrical Issues in Packaging: Digital, RF, and Mixed Signal Applications
- * Integrated Grounding System Design
- * Power Electronic Devices, Circuits, and Systems



NAECON '98

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13 - 17 July 1997
 Dayton Convention Center

For the past forty-nine years NAECON has been the premier aerospace conference held in Dayton, Ohio. It has been the show case for every airplane in the Air Force inventory and most of the missiles. It is at NAECON that the technology, created to push flying fighting machines farther than they've ever been, is discussed, argued about, politicized, and displayed. The forum that NAECON presents takes the form of papers, special sessions, tutorials, and exhibits. This past year's experience was a quality one as they have been in years past.

Celebrate the 50th Anniversary of this great organization.

NAECON '98 will be a truly superb event. Be There!

Points of contact are:

REGISTRATION: Melissa B. Whited, 937/342-5854
 EXHIBITS: Mike Scher, 937/885-5521
 TECHNICAL PAPERS: Lt Col Stuart Kramer, Ph.D. 937/427-4639
 GOLF CLASSIC: Linda Semier, 937/436-2587
 BANQUET: Lynn Locke, 937/253-6065
 NAECON '98 President: Bill Dungey, 937/236-9496

WHY SHOULD YOU ATTEND?

- * The single best meeting place for Aerospace and Electronics Technology.
- * Air Force Material Laboratory Road Map Reviews.
- * Exhibits by industry with latest technical advances in aerospace.
- * Air Force Research Laboratory briefings.
- * Special Sessions, Tutorials, and Technical Papers.
- * Network with over 1000 colleagues.
- * Acquaint yourself with the latest in technology and

REGION TWO DAYTON SECTION IEEE OFFICERS

| | | |
|--------------|---------------------|---------------------------------------|
| CHAIRMAN | Jack Cannon | 434-3236 |
| VICE CHAIR | Barbara Moore | Lida Ray 667-4972 |
| | lidaray@erinet.com | |
| TREASURER | Lucy Garcia | Veda 255-8650 |
| | l.h.garcia@ieee.com | |
| SECRETARY | Robert Haller | Std Reg 443-1951 |
| | haller@erinet.com | |
| JR. PAST CHR | Prof. Nataraj | Sinclair 512-2575 Office |
| | | 512-2570 (Dept) nnataraj@sinclair.edu |
| SR. PAST CHR | Bob Bennington | NAIC/DXL 257-3328 |
| | | rwb68@naic.wpafb.af.mil |

The 1997 Standing Committee Chairmen, that along with the Society Chairmen, make up the Executive Committee are:

- Affil. Societies Delegate - Walter Nolte - 299-0784 walt_n@dnaco.net
- Professional Activities - Prof. Nataraj Nataraj - 512-2575 (Office)
- Awards - Dick Moff - 434-9419
- Student Activities - Peter Maybeck - 255-3708 x 4639
- Sponsor Coordinator - Bill Vendeley - 293-7304
- Membership Development - Micki McCartney (h) 235-2474
- NAECON Liaison - Bill Dungey 255-4288
- Webmaster - Tim Glaze - 455-9173 tglaze@erinet.com
- Consultants Network - Dr. J. Martino - 299-4666

MINI CONDUCTOR

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EDITOR & PROGRAM COORDINATOR

Frank L. Palazzo - 434-4104
 4724 Eagleview Dr., Dayton, OH 45429 palazzo@erinet.com

GROUP/SOCIETY CHAIRMEN

- Aerospace & Electronics Sys. Society - Trina Burnejko - 255-1230 trina.burnejko@ascfb.wpafb.af.mil
- Antennas & Propagation, Microwave Theory & Techniques (APS/MTT) - Dr. Krishna Naishadham - 775-5057 knaish@gamma.cs.wright.edu
- Computer Society - Dave Perez perez@acm.org
- Control Systems - Dan Repperger - 255-3607
- Engineering in Medicine & Biology - Michael J. Krier; 255-3671; mkrier@Biocom.al.wpafb.af.mil
- Engineering in Management Society - Bill Radlinger - 253-3344
- Power Engineering/Industrial Apps/ Power Electronics - Suzette Albert 445-0515 suzette.albert@daytonoh.ncr.com
- Signal Processing Society (SPS) - Teresa Tuthill - 775-5064



STUDENT BRANCH ADVISORS

- AFIT - Capt Peter Collins 255-3636 x 4703
- CEDARVILLE - Prof. Robert Laramore 766-7686 laramorer@cedarnet.cdearville.edu
- SINCLAIR - Prof. Nataraj Nataraj 226-2575 (off) /-2570 (dept)
- UNIV. OF DAYTON - Seungug Koh 229-3611
- WRIGHT STATE - Dr. Arnab Shaw 775-5064

TO PLACE A NOTICE IN THE MINI-CONDUCTOR

Contact Frank Palazzo 434-4104

Deadline: 9th of each month for next month's issue

CHANGE OF ADDRESS: Service Center, IEEE (800-678-IEEE)
 Send all changes of address directly to IEEE, Inc., Coding Dept., 445 Hoes Lane, Piscataway, NJ 08854.
 All IEEE computer mailing lists are processed in NJ.
 Locally - send changes to Walt Nolte - 299-0784.

CHAIRMAN'S MESSAGE

Arthur Belefant, an IEEE Life Senior Member has coined a new law somewhat similar in nature to the well-known Murphy's Law. The Belefant Law stipulates that *you can't do anything without having to do something else first*. The negative tenor of his law stemmed from the necessity to cope with bureaucratic red tape before a straightforward solution to a well-defined problem could be implemented.



Our recent experience, however, allows me to apply a more positive aura to Belefant's law. Sometime ago we had established an objective to sort and inventory all of our files and sundry equipment and decisively strike a position on what to keep and what to dispose of. Some months back, however, we were forced to rather hastily move our archives and equipment items out of our storage space in the Engineers' club. Our options were to rent a storage shed, garage or whatever. Through the work of Ken Normand, another option evolved, i.e. renting a rather spacious room at Eastown Shopping Center. Without any visionary outlook for the room other than an appreciation of its flexibility, easy access and its immediate availability for solving the problem of vacating the Engineer's Club, we contracted for it. I won't belabor the "else" of Belefant's law that Ken had to go through to acquire an acceptable contract.

This year after the "Belefant" beginning, we had begun to think about the future utility of our acquired space. A few weeks ago a group of our executive committee folks convened with scrapers, brushes, rollers and paint to give the room a new look. Stepping back to admire our handiwork we began to do some creative thinking of other ways we could make the facility more useful for our section and its members. As you've noticed we have scheduled our March meeting at "IEEE Eastown". We hope to get a good turnout so you can see first hand the improvement and get your inputs on further things that can be done. Unknowingly at the outset we had become victimized by Belefant's Law of having to do something else before we could get on with organizing our archives. Looking back, we see the law, in our case, as an enhancer, rather than a detractor.

Jack Cannon

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Call Bill Vendely 293-7304 today!

Bright Sparks of the Universe - An Electron's Eye View. The Faraday's Lecture

The Faraday lecture was down linked to Sinclair on Tues Feb 3, 1998. In attendance were 29 students and 14 teachers. The lecture was recorded on Videotape and is available. Call Nataraj if interested.

**CALL FOR NOMINATIONS
DAYTON SECTION IEEE ANNUAL AWARDS**

The Dayton Section IEEE is accepting nominations for two prestigious awards to be presented at the Dayton Section Annual Awards Banquet to be held in April 1998.

HARRELL V. NOBLE AWARD

The Harrell V. Noble Award is given to an outstanding candidate who has made significant contributions in research, development and/or applications of electron devices. The Noble Award consists of an individual plaque and a monetary award given to the awardee, and the awardee's name added to the perpetual Noble Award plaque which is prominently displayed at major Dayton Section activities. The awardee must be a member of Dayton Section IEEE. The Noble Award is funded through the generosity of the late Dr. Harrell V. Noble and the Dayton Section.

DR. FRITZ J. RUSS BIO-ENGINEERING AWARD

The Dr. Fritz J. Russ Bio-Engineering Award is given to the nominee who has made significant contributions in research, development, teaching or management furthering the objectives of Bio-Engineering in the Dayton area for a minimum of three years. Bio-Engineering includes the physical and engineering sciences in biology and medicine ranging from formalized mathematical theory through experimental science and technological development to practical clinical applications. The awardee must be a member of the Dayton Section IEEE with at least Member Grade. The Russ Award consists of a plaque and monetary award given to the awardee and the awardee's name being added to the perpetual Russ Bio-Engineering plaque prominently displayed at major Dayton Section functions.

THE DEADLINE FOR RECEIPT OF NOMINATIONS IS FEBRUARY 15, 1998

Specific information required for each nominee is described in detail on nomination forms which may be obtained from the Dayton Section's Awards Committee Chairman:

Richard J. Moff
5661 King Arthur Drive Centerville, OH 45429
(w) 937-255-3765

**IEEE DAYTON SECTION
Student Paper Night**

Dayton Section IEEE will hold its 21st Annual "Student Night" to spotlight college and university student paper presentations at:

SINCLAIR COMMUNITY COLLEGE

Building 7, Room 7011
444 West Third St., Dayton, Ohio

WEDNESDAY, MARCH 18, 1998

6:00 p.m. Cocktails / Punch
6:30 p.m. Dinner
7:45 p.m. Presentation of Papers

Cost: \$9.00 Members and Guests
Students Half-Price

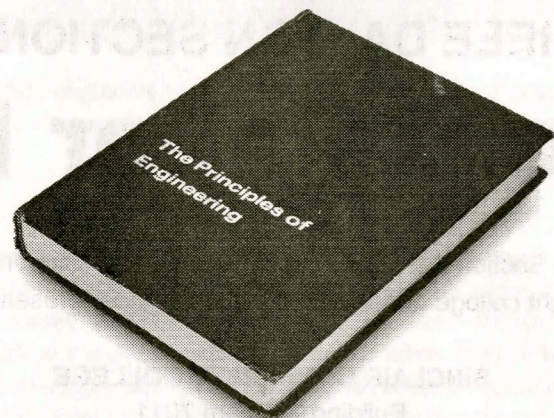
Papers will be presented by students from the local colleges with IEEE Student Branches. The Dayton Section will provide constructive feedback as well as awards to the participating students.

This student presentation represents the first step toward entering the IEEE Region 2 Competition, which takes place in April 1998. On the regional level, there are significant monetary awards to be won as well as the prestige associated with winning on this level of competition. All IEEE members, those associated with the local colleges and universities, and guests are cordially invited to attend this Section meeting and launch the winner onto the Region 2 competition.

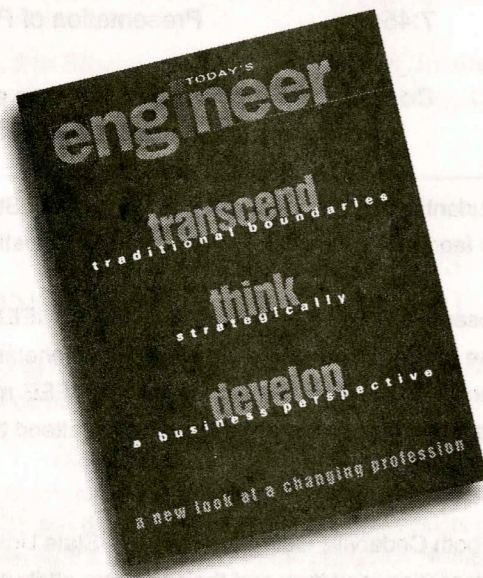
In the past, student teams from both Cedarville College and Wright State University have won the awards in the Region 2 Student Paper Competition, and they and their advisors attributed much of this success to the experience of the local competition process. With our support, local students can again attain this achievement. Feel good about supporting your profession, helping worthy professionals-to-be and enjoying good fellowship and a good meal, all at the same time! Please join us March 18.

For reservations, please contact one of the following on or before March 13, 1998:

IEEE..... Prof. Peter Maybeck..... 255-3708 x4639
Air Force Institute of Technology..... Maj. Peter Collins..... 255-3576 x4622
Cedarville College..... Prof. Robert Laramore..... 766-7686
Sinclair Community College..... Prof. Nataraj Nataraj..... 512-2575
University of Dayton..... Prof. Seungug Koh..... 229-3176
Wright State University..... Prof. Arnab Shaw..... 775-5064



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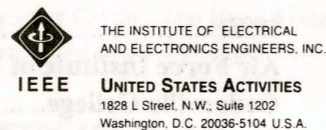


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**IEEE/AESS Dayton Section
15th ANNUAL SYMPOSIUM**

**“Sensing the World:
Analog Sensors and Systems Across the Spectrum”
14/15 MAY 1998**

SYNOPSIS-The Dayton Chapter of the AESS is sponsoring a one & one half (1.5) day symposium of the state of the art of sensors. The symposium technical chairman is Dr. Paul McManamon, WL/AA. The co-chairman is Trina Bornejko, ASC/RASG There will be a keynote address and a luncheon speaker during lunch on the 14th (AM).

Mark your calendars for Thursday & Friday, 14/15 May 1998. The “early registration period” will be through 6 March 1998. Register NOW to assure the best accommodations for the symposium. You can register via our WEB site. Please Note: WPAFB personnel interested in attending can also find Form 1556 help at our WEB site (see below).

The symposium agenda will address a broad technical area of sensors. The potential migration of technology, algorithms & processing techniques between sensors being used in different fields. Exploring applicable fields for partnership to reduce the cost of military sensor systems. There are many similarities in the types of problems faced in the development of the following areas: Medical Imaging and Diagnostic Systems (sensors used for acoustic, magnetic, IR, RF, EO); Remote Sensor Applications(sensors magnetic, acoustic, IR seismic); Environmental Management and Cleanup (sensors acoustic, magnetic, IR, EO, RF); Agricultural Sensor Applications (Sensors MRI, IR, Machine Vision, fiber-optics, Ultrasound); Industrial Process Control and Monitoring (use of acoustic, magnetic, IR, EO, RF, machine vision systems). There will be planned time for questions and answers for each briefer. Check our symposium WEB site for the latest information on presenters and subjects.

In the past an ASC/CV Memorandum from the two letters provided sanctioning of this annual symposium for training of ASC personnel. A copy will be made available when received or contact Bob Rau (see below).

DATE: Thursday/Friday, 14/15 May 1998 8:00AM-5:30PM (14th) & 8:00AM-11:30AM (15th)
(Lunch included on the 15th)

PLACE: Fairborn Holiday Inn, near I 675 & N. Fairfield Rd., Fairborn, Ohio
FOR MORE INFORMATION: Contact Bob Rau (937-255-3160) AND see our WEB site:
<http://www.dnaco.net/~buckeye/aess/symposium.html>

Symposium Chair: Dr. Paul McManamon, WL/AA
Dayton AESS Chair: Trina Bornejko, ASC/FBXT

REGISTRATION FORM

Registration includes attendance at seminar, lunch w/luncheon speaker, a copy of the proceedings, and refreshments at breaks.

Name: _____ Org. or Company: _____
Address: _____ Phone: (____) _____
City, St., ZIP: _____ Email: _____

Make checks payable to: IEEE Dayton Section (Credit Cards are not accepted)

Mail To: Robert J. Rau
123 N. First St., Apt 8, Fairborn, OH 45324
e-mail: (raurj@xr.wpafb.af.mil) Phone: (937-255-3160)

- Check appropriate boxes:
- Registration (IEEE & DoD Mbrs) \$115 (Est.)
 - Registration (All others)** \$125 (Est.)
 - Full Time Students (50 % Discount) \$ 62 (Est.)



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Spring Quarter Schedule (30 Mar - 12 Jun 1998)

Department of Electrical and Computer Engineering

For information, call Mrs. Mary Jane McCormick, 255-3636, x4619

| | | |
|-------------------------------------------------------------|------|----------------------|
| CSCE 532 Automata & Formal Language Theory | TW | 4:00-5:00 p.m. |
| | F | 2:00-4:00 p.m. |
| CSCE 544 Data Security | TF | 10:00a.m.-12:00 p.m. |
| CSCE 595 Software Sys Engineering | MW | 12:00-2:00 p.m. |
| 595 Lab | T | 12:00-2:00 p.m. |
| CSCE 623 AI System Design | MW | 2:00-4:00 p.m. |
| Lab | R | 1:00-2:00 p.m. |
| CSCE 646 DBMS Struct & Implementation | MW | 8:00-10:00 a.m. |
| CSCE 654 Computer Comm Networks | TR | 2:00-4:00 p.m. |
| CSCE 656 Parallel & Dist Proc Algorithms | TR | 12:00-2:00 p.m. |
| CSCE 682 Computer Graphics II | TR | 12:00-2:00 p.m. |
| CSCE 683 Dist Interactive Simulation | TR | 2:00-4:00 p.m. |
| CSCE 686 Adv Algorithm Design | MW | 10:00a.m.-12:00 p.m. |
| CSCE 793 Formal Methods in Software Eng | MW | 2:00-4:00 p.m. |
| 793 Lab | F | 1:00-2:00 p.m. |
| EENG 533 Navigation Using GPS | MW | 10:00-11:30 a.m. |
| 533 Lab | R | 2:00-4:00 p.m. |
| EENG 621 Theory & Applications of Pattern Recognition | MTWF | 8:00-9:00 a.m. |
| EENG 625 Antennas | MTWF | 4:00-5:00 p.m. |
| EENG 629 Electronic Combat | MTWF | 9:00-10:00 a.m. |
| EENG 630 Appl of Electromagnetic Theory | MTWF | 3:00-4:00 p.m. |
| EENG 635 Inertial Nav Subsystems | TR | 9:00-11:00 a.m. |
| EENG 640 Automatic Flight Control I | TF | 10:00a.m.-12:00 p.m. |
| EENG 670 Digital Communications II | WF | 12:00-2:00 p.m. |
| EENG *695 VLSI System Design | TF | 11:00 a.m.-1:00 p.m. |
| *695 Lab | R | 1:00-4:00 p.m. |
| EENG 708 Design of Linear Multivariable Feedback Systems | MW | 12:00-2:00 p.m. |
| EENG 766 Stochastic Est & Control II | TF | 1:00-3:00 p.m. |

* Limited to U.S. citizens

--TIMES ARE SUBJECT TO CHANGE--

Wright State University

**Selected Graduate Course Offerings in Electrical Engineering,
Computer Engineering and Computer Science**

Spring Quarter (March 30-June 13, 1998)

| | | | |
|------------|----------------------------------------------|-------------------------|-------|
| EE/CEG 619 | Introduction to Fuzzy Logic Control + Lab | 4:10- 5:25 pm | TTh |
| EE 625 | Numerical Methods for Engineers | 11:00-11:50/11:00-12:15 | M/TTh |
| EE 631 | Electronic Circuits + Lab | 1:00- 2:15 pm | MW |
| EE 651 | Digital Systems Design | 12:30- 1:45 pm | TTh |
| EE/CEG 654 | VLSI Design Principles + Lab | 5:35- 6:50 pm | MW |
| EE 675 | Introduction to Radar Systems | 5:35- 6:50 pm | MW |
| EE/CEG 678 | Coding Theory | 4:10- 5:25 pm | MW |
| EE/EGR 701 | Linear Systems I | 5:35- 7:25 pm | MW |
| EE 715 | Digital Image Processing | 7:00- 8:15 pm | TTh |
| EE 717 | Multisensor/Data Fusion | 5:35- 6:50 pm | MW |
| EE 720 | Advanced Digital Control | 4:10- 5:25 pm | MW |
| EE 743 | Power Electronics III | 4:10- 5:25 pm | MW |
| EE 745 | Synchronous Communication Theory | 5:00- 6:50 pm | MW |
| EE/CEG 753 | VLSI Design Synthesis & Optimization + Lab | 11:00-12:15 pm | MW |
| EE/CEG 758 | CMOS Analog Integrated Circuit Design + Lab | 11:00-12:15 pm | TTh |
| EE 763 | Classical & Modern Spectral Analysis + Lab | 7:00- 8:15 pm | MW |
| EE 831 | Robust Controls | 4:10- 5:25 pm | TTh |
| CEG 602 | Intro to Computer Communication Design + Lab | 4:10- 5:25 pm | TTh |
| CEG 611 | Microprocessor-Based System Design + Lab | 5:35- 6:50 pm | MW |
| CEG 633 | Operating Systems | 7:00- 8:15 pm | MW |
| CEG 634 | Concurrent Software Design | 4:10- 5:25 pm | TTh |
| CEG 653 | Design of Computing Systems + Lab | 4:10- 5:25 pm | TTh |
| CEG 660 | Introduction to Software Engineering | 7:00- 8:15 pm | TTh |
| CEG 663 | Personal SW Development Process | 5:35- 6:50 pm | MW |
| CEG 665 | Interactive Systems Modeling | 5:35- 7:20 pm | MW |
| CEG 676 | Computer Graphics | 5:35- 6:50 pm | TTh |
| CEG 728 | Introduction to Optical Computing | 7:00- 8:15 pm | TTh |
| CEG 730 | Distributed Computing Principles | 5:35- 6:50 pm | TTh |
| CEG 751 | Microprocessors II | 7:00- 8:15 pm | MW |
| CEG 759 | AI in Robotics | 5:35- 6:50 pm | TTh |
| CEG 760 | Advanced Software Engineering | 4:10- 5:25 pm | TTh |
| CEG 790 | Computer Vision | 7:00- 8:15 pm | MW |
| CS 600 | Data Structures and Software Design | 5:35- 6:50 pm | MW |
| CS 605 | Intro to Database Management Systems | 5:35- 6:50 pm | MW |
| CS 666 | Introduction to Formal Languages | 7:00- 8:45 pm | MW |
| CS 680 | Comparative Languages | 7:00- 8:15 pm | TTh |
| CS 702 | Database Systems and Design II | 4:10- 5:25 pm | MW |
| CS 712 | Advanced Topics in Artificial Intelligence | 5:35- 6:50 pm | MW |
| CS 776 | Functional Programming | 5:35- 6:50 pm | MW |
| CS 781 | Compiler Design and Construction II | 7:00- 8:15 pm | TTh |
| CS 840 | Advanced Topics in the Theory of Computation | 7:00- 8:15 pm | TTh |

For more information, call:

The Department of Electrical Engineering 937-775-5037
The Department of Computer Science and Engineering 937-775-5131

Wright State University is an equal opportunity/affirmative action institution.



IEEE Dayton Section HOME Page

Check out the Dayton Home Page at
<http://www.erinet.com/dayieec>

Volunteers Needed

Student papers rehearsal

This is scheduled for March 23, 1998 at Sinclair.

IEEE members are requested to volunteer to listen and comment on the student presentations to give them guidance for the Region 2 paper contest.

For more information, call: Nataraj Nataraj

Science day judges needed

Montgomery Co Science Day
Sat. March at UD Convocation Center

West District Science Day
Sat April at WSU Nutter Center

For more information, call: Irv Mayer at 878-8333



DAYTON SECTION IEEE ANNUAL AWARDS BANQUET:

Saturday March 28, 1998 6:00PM
Sinclair Community College Bldg. 12
(Parking provided in Underground Garage at Building 12)

Come and help us honor the achievements of our members and students of participating colleges.

Tickets: \$20.00

Dinner: Choice of Prime Rib or Roasted Chicken Breast

Dance to the music of the "Ralph Saum Combo"

RSVP (with Dinner Selection)

By phone to: Jack Cannon - 434-3236
Nataraj Nataraj - 512-2575
Dick Moff (434-9419)

By Email to: Barbara Moore - lidaray@erinet.com
Frank Palazzo - palazzo@erinet.com

Awards to be presented
at the Banquet include:

- * 1997 President of NAECON
- * 1997 President of Dayton Section IEEE
- * Chairman of the Autotestcon 97
- * Chairman of the "Training Teachers for Tomorrow's Technology" Conference
- * Outstanding Student from each of five local colleges that have IEEE student chapters.

Consultants Network



Meets monthly 11:30 on a **Friday** at the
Engineers Club.
Call 228-2148 for reservations and
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Data: 436-9915

Columbus Section Webpage

The Columbus Section of IEEE has a homepage at
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To give you the latest information on meetings, activities and more, the **Dayton IEEE Computer Society has set up an e-mail List Server.**

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