**Sitting in THE chair**
*Darrell Sabatka, Section Chairperson*

The holidays have come and gone. I hope you had a happy holiday season. I and the Executive Committee wish you a healthy and prosperous new year. I sincerely wish you obtain all your personal and career goals for 1994.

As we start a new year, we usually start with new budgets at home and at work. IEEE operates the same way. The Board completed the 1994 budget at the November 29, 1993 Board meeting. I might add that we held our 1993 budget to planned levels. In 1994, the section income will be approximately $24,500 and our expenses will be 29,000. Yes, this is deficit spending. Hey, if the Federal Government can do it, so can your IEEE Section. Actually, the Board is very aware of this deficit. The Board reviews each line item and our most able Treasurer uses the most advanced accounting software to monitor and balance our budget.

The section income varies year to year due to the amount of member rebates the Section receives from Headquarters and conference distributions. The Section has significant cash reserves to cover our deficit years. Several large conferences are scheduled in the next several years which will replenish our reserves. The section will not raise your taxes. Unfortunately, our membership dues did go up.

Speaking of up coming conferences, the Denver Section was notified that the IEEE Regional Activities Board has selected Denver as the location for the 1996 Sections Congress. Denver won over Atlanta and the Twin Cities sections. John Martin will chair the local organizing committee. Denver won because of the central location, international flavor, and enthusiasm of the nominations committee. Past Section officers are responsible for positioning the Denver Section to land Sections Congress 96. John Tary keeps adding conferences to bring in money for the Section.

One of the responsibilities of the Section Board is to carry out the goals and requests established by the Executive Committee. With the recent elections, vacancies exist for the Educational Activities Chair, Society Chapters Chair, Membership Chair, and Pre-college Student Activities Chair. I need your help to fill these positions. One of my responsibilities as chair is to recommend replacements to the Section Board. Are you interested? Do you know an IEEE peer that is a leader with a desire to serve the membership? These positions come complete with budgeted money, unlimited opportunities for advancement, IEEE credit card, and most basic of all, free food.

Call me or any board member for more information.

**Sidetones**

*Signals from/about the Membership*

- We wish to express the Section's appreciation to Bryce Chapman and Mark Shriver for them serving on the Conference Committee of the 1993 LAN Fair. Through their efforts the IEEE was represented on the Technical Program with contributed papers. Thanks! • Do you know or remember who named the *Rock-IEEE Overlook*? Carl Stubenrauch with NBS (NIST), Boulder did and his prize was an HP 45, donated by Hewlett Packard. Still use the HP 45 Carl? • The January 1994 printing and distribution of the Overlook is 5200. • We welcome Phil Gold as an associate editor to our publication. Phil is the Newsletter Editor for IEEE Industrial Electronics Society and please continue on page 4

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*The Denver IEEE Consulting Network is starting up! Call Tim Davis 466-1117 to get involved!*
Society Chapter Meetings
and Conference Information

IEEE Denver Consulting Network
Charter Meeting.
Date: Friday, January 28th @ 7:30am.
Location: To be determined.
Speaker: Dan Gaunouise
"New Trends in Consulting"
Contact: Tim Davis @ (303) 466-1117

IEEE Joint Vehicular/Communications Societies
Chapter Meeting
Date: Tuesday, January 11th, 1993
6:00 pm - Dinner (The Parlour, 846 Broadway, Denver)
7:00 pm - Program
Location: Television Station KUSA, 500 Speer Blvd, Denver
Speaker: Myron Oliner, VP of Engineering/Chief Engineer
"KUSA News Gathering Capabilities, Overview of Studio Equipment and Tour."
Future: February 8th meeting will feature Scott Zumbahlen of SynOptics and a presentation on the state-of-the-art bridges and routers for the computer networks.

IEEE Denver Section Awards Presentation & Membership Meeting
Date: Wednesday, January 19, 1993
6:30 pm - Cash Bar

7:00 pm - Dinner
7:45 pm - Awards and program
Location: Radisson, North Denver, Graysstone Castle
83 East 120th Avenue (I-25 and 120th)
Thornor, Colorado
Cost: $15.00
Reservations: Marilyn Peterson at 329-1615 by Friday, January 14th
Speaker: Dr. Gary Leininger
Professor of Engineering
University of Colorado, Denver
"Electrical Engineering Education in the Front Range"
Dr. Leininger will present an overview of the academic and research opportunities in electrical engineering at various universities in Colorado. Specific topics will include the new ABET guidelines for academic accreditation in EE, perceived strengths in university department academic programs, research laboratories and centers across the front range, and a discussion of the new integrated research program in manufacturing at CU-Denver.

IEEE Electromagnetic Compatibility
February 8, 1994 @ Woodward Governor Co.
Call EV Evans, (303) 761-9447

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Engineers Seeking Employment
Quality engineers available.
The following IEEE members are seeking employment. If you have a position open or know of one please contact Marilyn Peterson at (303) 329-1615. Please give your name, address, phone number and the special identification code to Marilyn. She will have the member contact you directly.

1992 BSEE Graduate. Strong technical and computer background seeks engineering employment. 6 years experience as field/ bench technician and 5 years programming low and high level languages. (A2G01)

Innovative Engineer. I am a solution oriented, technically current individual experienced in process control monitoring, process characterization/ improvement, continuous improvement, PLC, motor controls, Event driven real time programming background- DOS, OS/2, UNIX and others- Manufacturing R&D in machinery controls instrumentation. (A7G02)

MSEE. Experience with PLCs instrumentation controllers and power electronics. Developed 6805 controller for small machine. Three years supervision experience with large manufacturer. Prefer design or R&D position. Will relocate (A19W01)

Computer Science Ph.D. 30 years experience (14 years aerospace). Designed, implemented, managed and taught commercial application, scientific system and operating system development from single embedded microprocessor to some of the largest distribution supercomputer systems. (A22B03)

B.A., Mathematics. 20 years experience software development, software management, project and program management. Strategic planning/process innovation. Perform SEI maturity assessments. State Government/Fortune 50 background. (A26B02)

BSEE. Two years of S460 tape controller programming. SC3H-2, diagnostics. Obtained Marconi 4600, VM/CMS, REXX, "C", GRIP bus. Also power systems and controls. (MA1201)


Professional engineer with BSEE and BSBA degrees. Experience Record: 9 years telecommunications, 7 years test, 3 years marketing, 1 year project engineering and a proactive supervisor. (Y24H01)

Masters level professional. I have 7 years Systems Engineering experience and am seeking an opportunity in product development or test in Biomedical Electronics, Control Systems or Communication Electronics. Willing to relocate or commutes. (A03H02)

BSEE. Problem solving and adaptable individual, seeking opportunities in product development for instrumentation or communications. Strong customer support and technical writing background. (SO4011)

Software Development Manager. Know 2167A, TQM tools, SEI and ISO 9000. Managed development and system integration/test on variety of hardware, language and DBMS in engineering and scientific application, planning, problem solving. (SO4L02)

December BSEE, graduate. Have subsystem control and protection experience. Seeking entry level engineering employment. Extensive computer experience. Vice-Chairman IEEE student chapter. Passed the EIT exam 4-93. (S2850)

Communications Application Engineer. Over twenty years in communication applications engineering with extensive project experience in designing, purchasing, and installing Data, Voice, Telemetry, SCADA and Pictorial networks over radio, telephone, cable, fiber and TWFR, microwave and satellite communications with network switching and management facilities. (01W02)

Hardware/software Engineer. Over 10 plus years in computer hardware software experience as well as instrumentation seeks employment with environmental company. Knowledge of computer PLC based monitoring systems and sensors. (O01502)
ATTENTION!

Some things on fire in this column:

• Industry 2000 Workshop, May 12-13, 1994, Denver, Colorado. A series a need a led by electrical engineers trying to maintain tech-
nical nomenclature during a time of rapid technological change. Many
organisations that have traditionally provided steady employment
are “right-sizing” and “flattening” to remain competitive. No
longer can young engineers rely on the mentoring and training
once taken for granted. Experienced engineers face similar chal-
lenges as technology moves beyond the levels that were current
at the time of their formal education. This workshop will identify
continuing education needs of industry and define a strategy
“fit” IEEE, industry and academia can work together to
maintain the technical vitality of engineering professionals. The
Workshop participants will grapple with practical issues based on
the experience of fellow participants and their organisations.
Industry 2000 will offer a rare opportunity to develop effective
continuing education in the face of worldwide competition. For
additional information, contact John Meredith, (719) 590-1900.

• The Ninth Annual Battery Conference on Applica-
tions and Advances will be held on January 11-13, 1994 at California State
University, Long Beach, CA. Due to increasing emphasis on high
performance and reduced costs, technical challenges and business
opportunities have increased in battery-interactive electrical and
electronic power systems for almost all scientific and engineering
developers. This conference provides an opportunity for an in-
dependent examination of issues associated with the analysis, design
and selection of batteries and power conditioners that meet the
performance and cost goals of various applications. Info... Contact
Renee Madrid and/or Nga N. La (310) 985-6405.

• A new technology called Geographic Information Systems (GIS)
is rapidly changing the way businesses and governments manage
data and deliver information. GIS technology combines cartographic
and cartographic capabilities of traditional computer
mapping systems with a strong analysis system built around a rela-
tional database. The University at College at the University of Den-
ver has developed a certificate program in GIS. For additional
information call 871-3155, ext 213.
Feb 5-12 15th Annual IEEE Aerospace Conference, Vail, Colorado. Contact Robert A. Proctor, Trans-Spectrum Corp. (310) 545-9070
Feb 20-26 National Engineers Week, Paul Meniel (303) 673-9930
Mar 7-9 ENTELEC (Energy Telecommunications & Electrical Assoc.) San Antonio, Texas.
Mar 16-18 INFOCOM, Denver, Colorado. Call Macdon Hunter (303) 696-6100
Apr 24-26 IEEE Rural Electric Power Conference, Colorado Springs, Colorado. For more information contact Don Werner (402) 636-2585.
May 4-5 Rocky Mountain Technology Expo (ISA/ERA), Denver, Colorado. Contact Anita Wanberg at (303) 202-8042.
May 8-12 1994 IEEE Substations Committee Meeting, Los Angeles, California. Contact Don Land (213) 481-4764 or Wayne Block (312) 481-3427.
May 9-10 UTC (Utulities Telecommunications Conference), Denver, Colorado. Contact George Stoll at (303) 571-2677.
May 12-14 The Assoc. of Colorado Telecommunications Professionals, For information call (303) 628-6964.
May 23-27 International Microwave Symposium, MTTS-San Diego, California. Information: MTTS-S Symposium 1994, c/o LWR Associates, 1218 Baltzer Dr. Arnold, MD 21012, USA
Jun 18-23 UTC (Utilities Telecommunications Conference), Washington, D.C.
Sep 8 The Assoc. of Colorado Telecommunications Professsionals, Information, (303) 628-6964.
Oct 7 UTC Fall Technical Conference, Fort Collins, Colorado. Contact Mike Schmidt at (303) 259-5269.

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**Book Review**


Sp whatever else you like about Herbert Hoover, but understand this is about the first president born west of the Mississippi River. The man was a consummate businessman and politician. Work and success were what mattered to the young hoover. His well-organized mind enabled him to attend Stanford at age 17 and take on work there that helped finance his college education. He was a member of the surveying team at Stanford, and used the experience and his geology degree to land an easy job with the U.S. Geological Survey. He understood how to turn business opportunities into money making operations, and by age of 27 he was earning $75,000 a year. A fortune in the early 1900s. Hoover's drive and work ethic eventually propelled him into the White House. Locate this excellent book to read about the interesting life of the engineer-president.

---

**Builders**

I watched them tearing a building down,
A gang of men in a busy town,
With a ho-ho-ho-ho and a lunny yell
They swung a beam and the side wall fell.
I asked the foreman, "Are these men skilled.
And the men you'd hire if you had to build?"
He gave a laugh and said, "No, indeed!
Just common labor is all I need.
I can easily wreck in a day or two
What builders have taken years to do."
And I thought to myself as I went my way,
Which of these roles have I tried to play?
Am I a builder who works with care,
Measuring life by the rule and the square?
Am I shaping my deeds to a well-made plan,
Patiently doing the best I can?
Or am I a wrecker, who walks the town
Content with the labor of tearing down?

---

**Transducers and Sensors**

By John Webster.

Describes the principles, design, and application of many types of sen-
sors. Also includes discussion of design of circuits for interfacing sen-
ers, processing of signals, and calibration.

Program includes a study guide, three videotapes, final exam, and
and textbook, Interfacing Sensors to the IBM PC, edited by Willy J.
Tompkins and John D. Webster, Prentice-Hall, 1986.

For a full description of the program and complete ordering information,
call IEEE at 1-800-678-IEEE.

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