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Nov

Official Publication of the Chicago Section • Institute of Electrical & Electronics Engineers • ~~October~~ 1986

TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

For reservations call the IEEE office 236-4609
(unless otherwise indicated)

Copy Deadline for December Scanfax is Oct. 27, 1986

NOV. 5	"UL and its Relationship to the Elec. Industry"	Power Engrng. Soc.	Carson Pirie Scott Monroe & Wabash Sts. Highland Rm., 7th Fl.	Social 11:30 AM Lunch 12 Noon Meeting 12:30 PM
11	Monthly Meeting ALL WELCOME	IEEE Executive Cte.	Allen-Bradley Co. 910 Pasquinelli Dr. Westmont, IL	Meeting 7:30 PM
12	"Electronic Systems in Commercial Buildings"	IAS/IES Society	Mr. Peters Restaurant Northeast Corner of Rand & Central Rds. Mt. Prospect	Social 5:50 PM Dinner 6:30 PM Meeting 7:30 PM
12	"Overview of Optical Electronics Technology"	Electron Dev. Soc. joint with Northwest Sub.	Mr. Peters Banquets Mount Prospect Plaza Mt. Prospect, IL	Social 6:00 PM Dinner 7:00 PM Meeting 8:00 PM
13	"Practical Appl. of Normal, Exponential and Weibull Distributions"	Reliability Soc.	Midway Motor Lodge 1600 Oakton St. Elk Grove Village	Social 5:30 PM Dinner 6:30 PM Meeting 7:30 PM
20	"Introduction to OPS5"	Computer Society	Wilton Manor 2200 N. Main St. Wheaton, IL	Social 6:00 PM Dinner 7:00 PM Meeting 8:00 PM
DEC. 3	"Consumer Elect. Rebirth of the Audio Industry"	Fox Valley Subsection	Wilton Manor 2200 N. Main St. Wheaton, IL	Social 6:00 PM Dinner 7:00 PM Meeting 8:00 PM
3	"Protecting Sensitive Electronic Loads from Power Line Disturbance"	Power Engrng. Soc.	Carson Pirie Scott Monroe & Wabash Sts. Highland Rm., 7th Fl.	Social 11:30 PM Lunch 12 Noon Meeting 12:30 PM



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SCANFAX. (Publication) number (ISSN 0018-1297), Nov. 1986
Volume 39, Number 3, SCANFAX is published monthly, except July and August by the Chicago Section Institute of Electrical and Electronics Engineers for the information of its members. Business Office is at 125 S. Clark St., Chicago, Illinois 60603, telephone number (312) 236-4609. Subscription rate for IEEE members collected in dues. \$1.50; for others, \$3.00 per year. Third class postage paid at Glen Ellyn, Illinois.

Unless otherwise specified, Chicago Section IEEE neither endorses nor sanctions any positions or actions espoused in SCANFAX.

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Change of Address

Send change of address to Roseann Schulz, Member Services, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854-4150. Include your SPECTRUM mailing label is possible. We cannot forward this information for you, so please do not send it to the local office.

SCANFAX DEADLINES

ISSUE	COPY DUE	MAILED ON
DEC.	OCT. 27	NOV. 15
JAN. 87	NOV. 24	DEC. 15
FEB.	DEC. 29	JAN. 15
MAR.	JAN. 26	FEB. 14
APR.	FEB. 23	MAR. 16
MAY	MAR. 30	APR. 15
JUNE	APR. 27	MAY 15

SURVEY RESULTS

Included in this month's issue of SCANFAX you will find the first phase of the results of the survey run in SCANFAX last June. Although more than 6,000 SCANFAX were mailed to the Chicago section members, only 130 persons took the time and the 22 cents postage necessary to return the survey. Of those that were returned, only 127 had salary information that was usable, and one of those was only partly useful, hence the discrepancy in reported responses of 126 and 127. The information is presented as raw information sorted by age, and summarized by age bracket,

by experience years, and by salary range. The poor response shown by only 130 replies seems to be typical of engineers who only become active when their ox is being gored. The small percentage of responses casts some doubt upon the validity of the data. However, there does seem to be a flattening of salary beyond 20 experience years and an age of 40. The results of the opinion survey which accompanied the salary survey will be presented in a future issue of SCANFAX.

Bob Hofmann
Editor

PLACEMENT SERVICE

The Chicago Section is now offering a Placement Service for its members free of charge. The program is intended for those who are Member Grade and above and is a positive step to help our members who are unemployed. If interested in any of the applicants listed below, call the IEEE office (236-4609) for their name and phone number. If marked "confidential," the applicant will be contacted by the IEEE office so that he/she may contact the prospective employer.

B37 — MSCS - software development in a CIM, robotics, CAD/CAM environment.

B38 — Sr. electl. proj. engr. - nuclear & fossil power all aspects inc. I&C.

B39 — BSEET - Purdue Penn State GPA 5.0/6.0 entry level position in engineering.

B40 — BSEET - looking for entry level field service or test engr. position

B41 — Manager - exp.: billing, purch., sales-bldg.; sec. & maint.-vehicle: dispatch & maint.

B42 — BSEE from UIC - automation and digital control, management exp.

B43 — MSEE control systems/senior level.

B44 — BSEET GPA 3.32 entry level position in software or field service engr.

B45 — Sr. Project Engr. - factory automation, robotics, vision, AI, CAD/CAM, communica. software develop.

B46 — Telecommunications Analyst - exp. in central office, PBX & key system development.

B47 — Elect/Electronic Proj. Engr. - ECM microwave industrial cntrl. eqp. BSGN eng.

B48 — Engineering Manager - electronics rel. qual. ESD - extensive component exp.

B49 — BSEE - UIUC looking for entry level position in analog electronics.

If you are an IEEE member and unemployed, call or write for the necessary form. Direct your request to: IEEE Placement Service • 125 S. Clark Street - Room 1545 • Chicago, Illinois 60603.

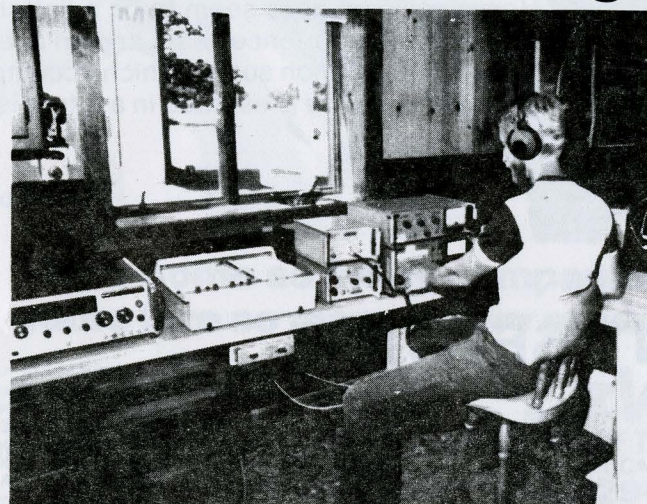
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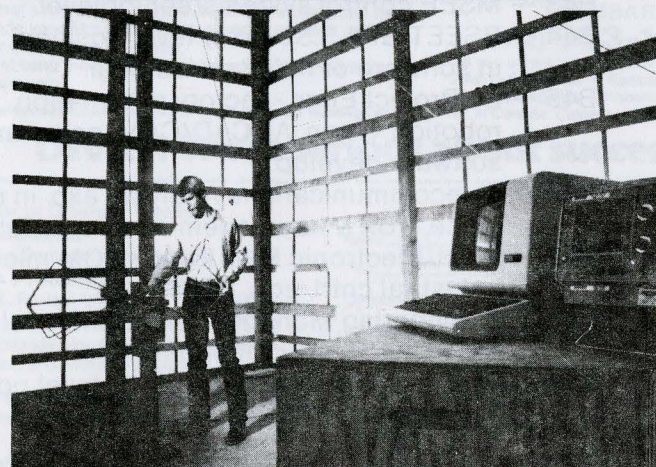
Look what makes D.L.S. the #1 test house for a growing number of engineers throughout the U.S.A.



Approved by the National Bureau of Standards

D.L.S. is proud to be recognized by the National Bureau of Standards as an accredited FCC test facility. Being approved by NBS is one of the best ways to assure clients of both the validity of our test results, and our adherence to the stringent requirements of the FCC. To obtain NBS approval, not only were our testing procedures and test equipment closely inspected, but also comprehensive investigations were held at our Glenview lab and open field site. In addition, the NBS also conducted in-depth interviews with our test engineers.

D.L.S. provides a wide array of testing and consulting services including FCC parts 2, 5, 15 (subparts J, H, and others), 18, and 68, and VDE including 0871 and 0875. In addition, D.L.S. also provides Mil Std 461 emissions and susceptibility testing and its commercial counterpart which includes MDS, Bell Stds., and others.



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RELIABILITY SOCIETY

THURSDAY NOV. 13

Practical Applications of Normal, Exponential and Weibull Distributions

Midway Motor Lodge
1600 Oakton Street
Elk Grove Village

Social 5:30 PM
Dinner 6:30 PM
Meeting 7:30 PM

Reservations: Call Eleanore Burda at 236-4609 no later than Tues. Nov. 11.

JOINT MEETING OF THE ELECTRON DEVICES SOCIETY AND THE NORTHWEST SUBSECTION

November 12, 1986

"Overview of Optical Electronics Technology"

By Barry Copeland, Field Engineer
Hewlett-Packard Co., Components Division

Mr. Copeland's talk will give the technology basics for LED's, optical couplers and fiber optic components. This meeting will be followed up with two additional meetings on optical electronic technology given by the Electron Devices Society.

For Reservations: Call the IEEE Office at 236-4609.

Dinner: \$11 at door, \$10 if reserved by November 7.

POWER ENGINEERING SOCIETY

Luncheon Meeting Wednesday - November 5, 1986

SPEAKER

Mark Leimbeck, Engineering Team Leader, Underwriters Laboratories, Inc.

TOPIC

Underwriters Laboratories, Inc. and It's Relationship To The Electrical Industry

ABSTRACT

Most companies in the power distribution sector of the electrical industry see their relationship with Underwriters Laboratories take three basic forms. This presentation provides an overview describing UL's involvement for each of these aspects with the constituent members of the power distribution sector of the electrical industry.

SPEAKER

Mark Leimbeck is an Engineering Team Leader in the Elect. Department at UL's Northbrook office. He holds a BSEET degree from Southern Illinois Univ., and is currently enrolled in the Master of Business Administration program at the University of Chicago.

He is a registered professional engineer in the state of Wisconsin, and is a member of the International Association of Electrical Inspectors. Mr. Leimbeck is currently responsible for UL's Standard for Panelboards, UL 67, and Standard for Motor Control Centers, UL 845.

LOCATION

Carson, Pirie, Scott & Co.
Highland Room
Monroe & Wabash - Downtown Chicago

Cocktails:
Lunch:
Meeting:

11:30 AM
12:00 PM
1:00 PM

Lunch is \$12.00 per person. Advance reservations should be made by calling Eleanore Burda at 236-4609.

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PRODUCTS CAPABILITY

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COMMUNICATION CABLES	MOLDED CABLE ASSEMBLIES
COMPUTER CABLES (SHIELDED & UNSHIELDED)	MULTI CONDUCTOR CABLES (SHIELDED & UNSHIELDED)
CONNECTORS (MICROWAVE, FIBER OPTIC & IDC)	MIL-SPEC INSULATED WIRE
CONTROL CABLES	PHASE MATCHED CABLE ASSEMBLIES
DATA PROCESSING CABLE (HIGH SPEED)	POINT OF SALE CABLE
DELAY LINES	POWER LIMITED CIRCUIT CABLE CLASS 2 OR 3
FIBER OPTIC CABLE & ASSEMBLIES	POWER LIMITED FIRE ALARM CABLE
FLEXIBLE CORD - SJT, ST, STO, SJTO (UL/CSA)HOSPITAL & EXPORT CORDS	POWER LIMITED FIRE PROTECTIVE SIGNALING CABLE
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INSTRUMENTATION CABLES	PULSE CABLES
INSTRUMENTATION CABLES	ROBOTIC CABLES
INTERCOM CABLES	RS-232 INTERCONNECT CABLES
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	TWISTED PAIRS (UL/CSA)

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TECHNICAL STAFF

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ONE GRADUATE CHEMIST	EIGHT GRADUATE SENIOR ELECTRONIC TECHNICIANS
ONE GRADUATE MECHANICAL ENGINEER	

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IEEE CHICAGO SECTION MEMBER SALARY AND FRINGE BENEFIT SURVEY

Please mark all of your responses on the Enclosed Survey Reply Card. Your response must be received by June 30, 1986 to be tabulated. Please respond only if you are working or seeking employment in an engineering or engineering management position on a full-time basis.

1. **TOTAL COMPENSATION** - What was your annualized salary as of MAY (a) 86 (b) 85 (c) 84. DO NOT include overtime or bonus income and DO NOT include income from secondary employment (such as part-time teaching, part-time consulting, etc.) Enter integer dollars.

EXAMPLE: 1a \$ | 0 | 6 | 7 | 0 | 0 | 0 | .00

2. **ENGINEERING EXPERIENCE** - How many years of experience have you had in electrical/electronic engineering and/or related fields?

EXAMPLES: | 0 | 1 | or | 2 | 2 |
Years Years

3. **LEVEL OF PROFESSIONAL RESPONSIBILITY** - Which one professional level of responsibility best describes your present level of responsibility?

- Eng 1 GS-5 Asst. Eng (entry level)
±1 yrs. Exp.
- Eng 2 GS-7 Assoc. Eng (routine work)
±2 yrs. Exp.
- Eng 3 GS-9 Engineer (works independently)
±4 yrs. Exp.
- Eng 4 GS-11 Sr. Eng (fully competent)
±10 yrs. Exp. Supervises 0-2
- Eng 5 GS-12 Sr. Staff Engineer (Principal Eng.)
±15 yrs. Exp. Supervises 0-3
- Eng 6 GS-13 Supervisor (research section Hd)
±18 yrs. Exp. Supervises 0-8
- Eng 7 GS-14 Dept. Head (research authority)
±22 yrs. Exp. Supervises 0-25
- Eng 8 GS-15 Project Manager, Eng. Director
±26 yrs. Exp. Supervises 0-100
- Senior Corporate/Agency Management or Staff
- Other, not covered by above.

NOTE: Grades 1 through 8 are described in IEEE national salary surveys and in the U.S. Department of Labor Professional Administrative, Technical and Clerical (PATC) Survey. GS numbers are General Services ratings used by Federal Government and correlated to the grades survey in accordance with the Department of Labor determinations.

4. **DEGREE/LICENSE**
(Enter up to 3 codes as applicable).

- Less than Bachelor's Degree
- Bachelor of Arts Degree
- Bachelor of Engineering Technology Degree
- Bachelor of Science or Engineering Degree
- Master's Degree (not MSEE or MBA)
- MBA Degree
- MSEE Degree
- Doctorate
- PE

5. **YOUR PRINCIPAL JOB FUNCTION**

- General Corporate Management
- Design & Development Engineering (circuits, components, equipment systems)
- Engineering Services (evaluation quality control, reliability, standards, test)
- Basic Research
- Manufacturing & Production
- Engineering Assistants (draftsman, lab assistant, technician)
- Field Engineering, Customer Service
- Purchasing & Procurement
- Marketing including Sales
- Advertising, Media or Public Relations
- Personnel, Human Relations, etc.
- Other

6. **TECHNICAL SPECIALTY** - Describe in a few words.

EXAMPLE: Antenna Design, Computer Repair, CS, etc.

7. **EMPLOYER PROFILE** -
Enter most applicable number.

- Industry, R&D
- Industry, Manufacturing
- Industry, Data Processing
- Industry, Engineering Services
- Self Employed
- Federal Government, Department of Defense
- Other Government
- University, Non-Profit Associations
- Other (describe on card)

8. **EMPLOYER SIZE**

- Enter number of all employees at your facility.
- Enter number of all engineers, scientists at your facility.
- Enter number of all employees, of your employer in U.S.

BENEFITS RECEIVED

9. **HOLIDAYS** - How many scheduled holidays and paid days off will you be eligible to take in calendar year 1986?

EXAMPLE: | 0 | 9 | or | 1 | 1 |

10. **VACATION** - How many vacation days can you take in 1986?

11. **OTHER LEAVE** - How many days of other leave did you take in 1985?

12. **OVERTIME** - Do you receive compensation for overtime?

- Yes in Cash
- Yes in Comp Time Off
- No but get significant bonus
- Rarely or never

PERSONAL PROFILE QUESTIONS - OPTIONAL (These assist IEEE in analyzing problems)

13. **YEARS WITH PRESENT EMPLOYER** - How many years have you been with your present employer as of MAY, 1986 (use your prior employer if you are currently unemployed).

EXAMPLES: | 0 | 1 | or | 2 | 5 |

14. **AGE** - Insert your age in years (round off) as of JAN, 1986, in the two boxes provided on the Survey Reply Card.

15. **ORIGIN** - (EEO Classification)

- White (not of Hispanic origin)
- Black
- Hispanic
- Asian or Pacific Islander
- American Indian or Alaskan Native
- Other
- Prefer not to answer question

16. **SEX**

- Male
- Female

17. **CITIZENSHIP**

- USA Citizen
- Permanent Resident
- Other Visitor

18. **DURATION OF UNEMPLOYMENT** - During the past 12 months, how long were you unemployed (in weeks)?

EXAMPLES: | 0 | 7 | or | 1 | 2 |

19. Are you currently unemployed involuntarily and seeking a full-time engineering related job?

- Yes
- No

1986 SALARY SURVEY

Sorted by AGE

LOWER AGE	20
UPPER AGE	24
AVERAGE EXPERIENCE	1
AVERAGE SALARY 1986	32252
AVERAGE VACATION	9
NUMBER OF SURVEYS	6
LOWER AGE	25
UPPER AGE	29
AVERAGE EXPERIENCE	5
AVERAGE SALARY 1986	40268
AVERAGE VACATION	12
NUMBER OF SURVEYS	9
LOWER AGE	30
UPPER AGE	34
AVERAGE EXPERIENCE	8
AVERAGE SALARY 1986	46933
AVERAGE VACATION	13
NUMBER OF SURVEYS	25
LOWER AGE	35
UPPER AGE	39
AVERAGE EXPERIENCE	13
AVERAGE SALARY 1986	47271
AVERAGE VACATION	16
NUMBER OF SURVEYS	21
LOWER AGE	40
UPPER AGE	44
AVERAGE EXPERIENCE	17
AVERAGE SALARY 1986	52440
AVERAGE VACATION	19
NUMBER OF SURVEYS	20
LOWER AGE	45
UPPER AGE	49
AVERAGE EXPERIENCE	24
AVERAGE SALARY 1986	54446
AVERAGE VACATION	17
NUMBER OF SURVEYS	12
LOWER AGE	50
UPPER AGE	54
AVERAGE EXPERIENCE	27
AVERAGE SALARY 1986	56997
AVERAGE VACATION	22
NUMBER OF SURVEYS	14
LOWER AGE	55
UPPER AGE	59
AVERAGE EXPERIENCE	31
AVERAGE SALARY 1986	63760
AVERAGE VACATION	19
NUMBER OF SURVEYS	10
LOWER AGE	60
UPPER AGE	70
AVERAGE EXPERIENCE	38
AVERAGE SALARY 1986	60271
AVERAGE VACATION	23
NUMBER OF SURVEYS	9
LOWER AGE	20
UPPER AGE	70
AVERAGE EXPERIENCE	17
AVERAGE SALARY 1986	50810
AVERAGE VACATION	17
NUMBER OF SURVEYS	126

Sorted by EXPERIENCE

LOWER EXPERIENCE	0
UPPER EXPERIENCE	4
AVERAGE AGE	24
AVERAGE SALARY 1986	33779
AVERAGE VACATION	8
NUMBER OF SURVEYS	13
LOWER EXPERIENCE	5
UPPER EXPERIENCE	9
AVERAGE AGE	31
AVERAGE SALARY 1986	43520
AVERAGE VACATION	17
NUMBER OF SURVEYS	21
LOWER EXPERIENCE	10
UPPER EXPERIENCE	14
AVERAGE AGE	34
AVERAGE SALARY 1986	49834
AVERAGE VACATION	15
NUMBER OF SURVEYS	19
LOWER EXPERIENCE	15
UPPER EXPERIENCE	19
AVERAGE AGE	40
AVERAGE SALARY 1986	49475
AVERAGE VACATION	16
NUMBER OF SURVEYS	22
LOWER EXPERIENCE	20
UPPER EXPERIENCE	24
AVERAGE AGE	44
AVERAGE SALARY 1986	52672
AVERAGE VACATION	16
NUMBER OF SURVEYS	16
LOWER EXPERIENCE	25
UPPER EXPERIENCE	29
AVERAGE AGE	50
AVERAGE SALARY 1986	58625
AVERAGE VACATION	19
NUMBER OF SURVEYS	16
LOWER EXPERIENCE	30
UPPER EXPERIENCE	34
AVERAGE AGE	55
AVERAGE SALARY 1986	61058
AVERAGE VACATION	24
NUMBER OF SURVEYS	8
LOWER EXPERIENCE	35
UPPER EXPERIENCE	39
AVERAGE AGE	59
AVERAGE SALARY 1986	69524
AVERAGE VACATION	20
NUMBER OF SURVEYS	10
LOWER EXPERIENCE	40
UPPER EXPERIENCE	50
AVERAGE AGE	64
AVERAGE SALARY 1986	38900
AVERAGE VACATION	30
NUMBER OF SURVEYS	2
LOWER EXPERIENCE	0
UPPER EXPERIENCE	50
AVERAGE AGE	40
AVERAGE SALARY 1986	50635
AVERAGE VACATION	17
NUMBER OF SURVEYS	127

Sorted by SALARY

LOWER SALARY	20000
UPPER SALARY	29999
AVERAGE EXPERIENCE	5
AVERAGE AGE	20
AVERAGE VACATION	1
NUMBER OF SURVEYS	3
LOWER SALARY	30000
UPPER SALARY	39999
AVERAGE EXPERIENCE	12
AVERAGE AGE	36
AVERAGE VACATION	14
NUMBER OF SURVEYS	24
LOWER SALARY	40000
UPPER SALARY	49999
AVERAGE EXPERIENCE	15
AVERAGE AGE	38
AVERAGE VACATION	16
NUMBER OF SURVEYS	45
LOWER SALARY	50000
UPPER SALARY	59999
AVERAGE EXPERIENCE	18
AVERAGE AGE	41
AVERAGE VACATION	17
NUMBER OF SURVEYS	29
LOWER SALARY	60000
UPPER SALARY	69999
AVERAGE EXPERIENCE	24
AVERAGE AGE	47
AVERAGE VACATION	19
NUMBER OF SURVEYS	16
LOWER SALARY	70000
UPPER SALARY	79999
AVERAGE EXPERIENCE	33
AVERAGE AGE	56
AVERAGE VACATION	23
NUMBER OF SURVEYS	4
LOWER SALARY	80000
UPPER SALARY	200000
AVERAGE EXPERIENCE	30
AVERAGE AGE	53
AVERAGE VACATION	24
NUMBER OF SURVEYS	6
LOWER SALARY	20000
UPPER SALARY	200000
AVERAGE EXPERIENCE	17
AVERAGE AGE	40
AVERAGE VACATION	17
NUMBER OF SURVEYS	127

86 SALARY	85 SALARY	84 SALARY	YEARS EXP	RESPONS LEVEL	DEGREE	DEGREE	DEGREE	JOB FUNCTION	EMPLOYER PROF	FACILITY EMP	FACILITY ENG	TOTAL US EMP	HOLIDAYS	VACATION	OTHER LEAVE	OVERTIME	SERVICE YEARS	AGE	EEO CODE	SEX	CITIZEN	UNEMP WEEKS	CURRENTLY UNEMP	
28500	27600	0	1	2	3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26000	0	0	1	1	3	0	0	3	1	85	9	85	10	5	0	4	1	22	1	1	1	0	2	
30060	28800	0	1	1	3	0	0	2	2	4000	1500	500000	0	12	1	1	1	23	1	1	1	0	2	
30656	7000	5000	2	3	6	3	0	2	0	6000	2000	15000	11	5	0	1	1	23	1	1	1	0	2	
33300	30180	26400	2	2	3	0	0	2	1	800	350	300000	14	10	1	1	2	24	1	1	1	0	2	
34500	31000	28200	2	2	3	0	0	2	1	7000	1000	80000	10	12	0	4	2	24	1	1	1	0	2	
37000	34000	29500	2	3	3	0	0	2	0	2000	250	0	0	10	3	4	2	24	1	1	1	0	2	
31150	30700	30000	2	2	6	3	0	2	7	3000	200	3000	11	24	0	4	2	25	1	1	1	0	2	
41500	37500	34500	9	3	4	3	0	2	9	4000	2500	15000	16	10	13	2	4	25	1	1	1	0	2	
40000	35500	31500	4	0	3	0	0	12	0	9	6	9	6	6	12	3	0	26	1	1	1	26	2	
44400	40000	36800	5	4	6	3	0	2	1	4700	1100	55000	10	15	3	4	5	26	1	1	1	0	2	
45000	42000	39900	5	3	6	3	0	2	0	6000	4000	16000	14	18	2	1	5	27	1	1	1	0	2	
31564	29120	0	2	3	3	0	0	5	5	5000	1500	25000	11	10	0	1	2	28	1	1	1	0	2	
36200	33800	0	0	4	4	3	0	2	1	5000	600	80000	9	15	0	1	8	29	1	1	1	0	2	
45000	36000	30000	7	5	3	0	0	2	1	50	10	140	9	10	0	4	2	29	1	1	1	0	2	
47600	41500	8400	3	0	7	6	3	12	0	0	0	0	0	0	0	4	2	29	1	1	1	0	2	
40000	37000	35000	8	4	3	0	0	2	3	12	9	309	8	10	0	2	1	30	1	1	1	0	2	
47200	42400	40000	6	3	6	3	0	2	0	6000	5000	350000	11	10	0	1	6	30	1	1	1	0	2	
48000	43000	39000	9	3	6	3	0	2	0	4000	250	200000	11	15	3	1	9	30	1	1	1	0	0	
39300	38000	36000	9	4	3	0	0	3	1	100	30	300000	10	15	3	1	9	31	1	1	1	0	2	
43000	41139	38160	11	4	6	5	3	2	1	400	25	500	9	5	0	4	0	31	1	1	1	11	2	
43000	37500	35000	10	6	4	3	0	2	9	300	20	300	9	10	3	4	1	31	1	1	1	0	2	
45000	42300	40000	10	6	5	3	0	2	1	1000	40	18000	13	15	2	4	10	31	1	1	1	0	2	
45000	40000	33200	8	3	6	3	2	3	0	6000	3000	25000	14	25	0	1	8	31	1	1	1	0	2	
47600	45000	36400	11	5	4	3	0	4	0	0	0	0	0	10	10	31	4	1	31	1	2	1	0	2
48000	40000	37500	6	4	6	0	0	2	0	1500	300	15000	11	15	10	4	2	31	4	1	2	0	2	
52300	48500	44500	7	7	6	3	0	2	1	7000	500	70000	11	15	0	4	7	31	1	1	1	0	2	
58000	58000	44400	10	5	6	3	0	2	0	10000	2000	80000	10	15	4	4	10	31	1	1	1	0	2	
63400	33280	30680	9	4	3	0	0	2	1	500	100	600	6	5	0	1	1	31	7	1	1	2	2	
32040	29964	28140	9	3	3	0	0	2	1	8	8	8	12	10	0	1	4	32	1	1	1	0	2	
35000	33000	31000	8	4	3	2	1	5	1	200	12	500	11	15	5	4	8	32	1	1	1	0	2	
45000	42000	42000	8	4	3	0	0	2	1	1000	20	1000	7	15	0	3	8	32	1	1	1	0	2	
35000	28000	22000	4	4	6	0	0	2	1	600	50	5000	7	7	0	4	1	33	1	1	3	12	2	
43280	41000	17400	5	3	7	3	0	4	0	145	70	18605	10	10	1	4	1	33	1	1	2	0	2	
56000	50500	47500	12	7	4	3	0	1	0	380	200	150000	11	20	0	4	12	33	1	1	1	0	2	
39720	37320	34860	9	4	3	0	0	12	9	550	85	16500	12	11	0	1	3	34	1	1	1	0	2	
46000	49000	46000	6	5	4	4	1	2	1	600	200	2500	14	10	2	3	1	34	1	1	1	0	2	
47500	43300	40000	10	5	6	3	0	4	1	5000	500	75000	11	15	1	3	10	34	1	1	1	0	2	
56000	52500	48400	13	5	4	3	0	2	0	2000	400	20000	11	15	2	4	12	34	4	1	1	0	2	
57000	49000	44000	11	6	3	0	0	2	1	1100	100	1500	10	15	0	4	5	34	1	1	1	0	2	
61000	55000	50000	12	5	6	3	0	2	1	350	55	3500	11	20	0	4	5	34	1	1	1	0	2	
36600	34500	32000	10	4	2	0	0	7	8	2000	500	2000	5	26	0	4	5	35	1	1	1	0	2	
46500	42500	39200	15	5	5	0	0	1	3	27	18	1273	23	15	0	1	11	35	1	1	1	0	2	
50000	44200	41400	11	5	6	3	0	3	0	4000	1900	18000	15	15	2	3	9	35	1	1	1	0	2	
35500	35500	34700	14	4	3	0	0	2	5	5000	1000	30000	10	10	4	1	1	36	1	1	1	0	2	
50000	45000	40000	10	6	5	3	0	2	1	90	4	90	8	15	0	4	10	36	1	1	1	0	2	
52000	50000	50000	11	0	4	3	0	12	4	14	12	14	12	15	0	4	7	36	1	1	1	0	2	
60200	55000	39500	11	9	6	5	3	2	0	35	12	45	9	13	0	4	3	36	1	1	1	0	2	
43500	43500	42000	13	4	0	0	0	2	9	10000	300	50000	10	20	5	4	17	37	1	1	1	0	2	
48300	43000	40000	15	6	6	3	0	2	1	6000	300	100000	13	25	0	4	20	37	1	1				

86 SALARY	85 SALARY	84 SALARY	YEARS EXP	RESPONS LEVEL	DEGREE	DEGREE	DEGREE	JOB FUNCTION	EMPLOYER PROF	FACILITY EMP	FACILITY ENG	TOTAL US EMP	HOLIDAYS	VACATION	OTHER LEAVE OVERTIME	SERVICE YEARS	AGE	EEO CODE	SEX	CITIZEN	UNEMP WEEKS	CURRENTLY UNEMP
49050	49050	46300	18	7	4	3	0	2	9	1200	600	19000	13	20	0	4	18	40	1	1	0	2
65000	56000	51000	17	7	6	5	0	1	9	100	50	1800	9	15	4	4	14	40	6	1	1	2
31800	30100	0	1	3	3	1	0	2	1	900	100	7000	0	10	0	2	1	41	1	2	1	2
36000	36000	36000	18	5	4	3	0	12	2	6000	400	125000	10	20	6	1	15	41	1	1	1	2
49800	46600	42100	21	6	0	0	0	2	1	5400	1250	5400	11	15	0	2	12	41	1	1	1	1
61000	40000	36000	16	9	6	3	0	0	1	30	4	30	9	15	0	3	11	41	1	1	1	2
35700	35700	34500	21	5	3	0	0	2	1	500	200	90000	13	15	1	2	8	42	1	1	1	2
40000	37000	34000	6	6	7	4	0	4	8	60	35	60	12	90	0	4	6	42	1	1	1	2
45800	43300	40500	18	4	0	0	0	7	1	400	50	400	11	16	0	4	5	42	1	1	1	2
47000	44000	42000	15	6	3	0	0	2	0	6000	500	50000	9	10	0	4	4	42	1	1	1	2
48900	45200	43300	20	6	7	6	3	4	5	0	0	0	10	11	4	4	1	42	1	2	1	2
50180	46020	41704	19	5	3	0	0	2	1	4700	900	47000	11	15	4	1	13	42	1	1	1	2
57000	55200	52500	20	6	3	0	0	2	3	3500	1000	4500	8	20	25	4	20	42	1	1	1	2
58400	58400	54000	16	7	3	0	0	2	0	3000	350	45000	11	15	0	4	8	42	1	1	1	1
79000	79000	71000	21	8	5	3	8	2	9	3000	0	19000	13	20	0	4	21	42	1	1	1	52
85000	80000	77000	21	8	6	3	0	2	0	5000	4500	30000	14	20	0	4	22	42	1	1	1	2
56000	48000	44000	22	7	3	0	0	2	0	50	10	50	9	10	0	4	3	43	1	1	1	2
47500	47500	46000	21	5	6	3	0	2	1	45	2	47	9	20	2	4	21	44	1	1	1	2
55320	52836	51120	19	5	3	0	0	1	1	1200	700	100000	14	20	0	1	19	44	1	1	1	2
42500	39000	39000	22	6	3	0	0	2	7	40000	500	40000	12	16	7	4	14	45	1	1	1	2
53900	51900	49700	21	5	5	3	8	2	3	35	20	3000	8	10	4	1	3	45	1	1	1	2
58000	54000	50000	21	6	3	0	0	12	9	189	100	289	7	20	1	4	7	45	1	1	1	2
69000	69000	65000	24	8	3	0	0	7	1	200	100	250000	10	25	0	4	24	45	1	1	1	2
37000	36000	38500	24	5	4	3	0	2	2	170	30	180	9	15	0	1	2	46	1	1	1	2
48360	48360	70720	23	6	3	0	0	2	1	6000	1000	6000	10	14	0	1	2	46	1	1	1	2
57300	54400	51000	25	7	6	3	1	3	1	1300	250	130000	11	21	0	4	14	46	1	1	1	2
42000	43800	41100	26	5	3	0	0	2	1	100	20	100	9	0	10	4	0	47	1	1	1	16
55000	51750	45000	28	7	0	0	0	1	1	30	12	30	10	10	5	4	2	48	1	1	1	2
58800	58800	56900	26	8	3	0	0	2	9	21000	1000	21000	10	28	0	4	26	48	1	1	1	2
63900	59900	57900	29	6	6	3	0	1	0	6000	4000	300000	15	25	0	4	29	49	1	1	1	2
67600	64400	61400	25	6	6	3	0	2	0	6000	2000	20000	13	25	0	4	25	49	1	1	1	2
49500	45200	42500	26	6	5	3	8	2	1	500	30	9000	10	10	4	4	7	50	1	1	1	2
62400	62400	59590	28	6	3	0	0	3	9	88	37	88	13	30	0	4	28	50	1	1	1	2
81500	76000	70000	28	9	3	0	0	2	1	10000	1000	60000	10	25	0	4	27	50	1	1	1	2
86000	81000	72000	29	8	6	5	3	1	1	110	10	300	9	15	10	3	3	50	1	1	1	2
48000	42000	42000	28	5	3	0	0	3	1	4500	500	200000	12	25	0	4	28	51	1	1	1	2
50000	47000	44650	18	6	7	0	0	1	8	2200	300	2200	10	24	0	4	14	51	1	1	1	2
42949	42949	42273	30	5	5	3	0	2	1	400	45	400	10	25	0	4	26	52	1	1	1	2
63540	60480	0	30	6	3	0	0	12	9	1500	0	16000	13	30	0	4	30	52	7	1	1	2
47800	45200	42650	26	8	3	0	0	2	1	1400	150	1500	10	20	3	4	26	53	1	1	1	2
54600	52000	48000	28	4	3	0	0	2	1	18600	1200	18600	12	30	0	2	28	53	1	1	1	2
33000	31000	29000	20	5	0	0	0	3	1	200	40	200	9	15	3	1	11	54	1	1	1	2
53300	49900	46400	28	5	3	0	0	7	1	9000	1000	45000	11	25	0	4	28	54	1	1	1	2
61380	58320	55140	32	6	7	4	3	3	8	3200	500	3900	10	24	4	4	25	54	1	1	1	2
64000	62000	63000	28	5	3	0	0	2	4	1	1	1	11	10	0	4	18	54	1	1	1	2
40100	37800	36400	22	5	3	0	0	5	1	240	17	17	10	20	0	2	22	55	1	1	1	1
46300	42133	38341	27	4	5	3	1	2	1	1000	30	4000	0	14	6	4	2	56	1	1	1	2
57000	54000	51000	31	8	3	0	0	1	1	120	3	120	9	15	15	4	2	56	1	1	1	2
60600	56300	55300	32	5	6	0	0	2	0	5000	3000	5000	14	25	0	1	32	56	1	1	1	2
62000	60000	56000	35	7	3	0	0	9	9	550	350	600	7	20	3	1	20	56	1	1	1	2
67000	61000	60000	30	6	6	3	0	3	0	900	300	80000	11	25	7	4	30	56	1	1	1	2
68600	64700	60800	37	9	6	3	8	1	1	220	60	350	11	10	0	3	4	57	1	1	1	2
49000	47000	43000	30	9	6	4	3	1	1	75	12	75	10	15	0	4	6	58	1	1	1	14
100000	91000	91000	37	8	7	4	3	1	0	45	38	45	12	20	2	4	6	58	1	1	1	2
87000	81000	76000	32	7	4	3	0	2	0	4000	1000	300000	17	35	0	4	32	59	1	1	1	2
39025	37900	36500	36	0	3	0	0	10	9	1	1	75	10	13	2	4	8	60	7	1	1	2
70000	67000	65000	36	5	3	0	0	9	1	450	50	5100	11	30	15	3	31	60	1	1	1	2
33000	32000	31000	35	3	6	0	0	3	3	1500	500	325000	10	20	4	1	16	61	1	1	1	2
46200	43600	41000	40	4	3	0	0	7	1	28	24	250000	10	30	10	1	40	61	1	1	1	2
55796	51636	49296	39	5	6	3	0	2	1	6000	600	6000	11	15	1	1	14	61	1	1	1	2
75824	70160	63789	39	7	6	3	0	2	8	800	300	1500	8	20	0	2	25	61	1	1	1	2
115000	115000	107000	38	9	5	3	0	1	1	18200	3160	18200	11	30	0	4	38	61	1	1	1	2
76000	74000	70000	39	6	4	0	0	2	3	4800	600	5000	9	22	0	3	34	62	1	1	1	2
31600	31600	21600	46	0	3	0	0	9	1	332	6	2	6	30	2	3	9	68	1	1	1	2

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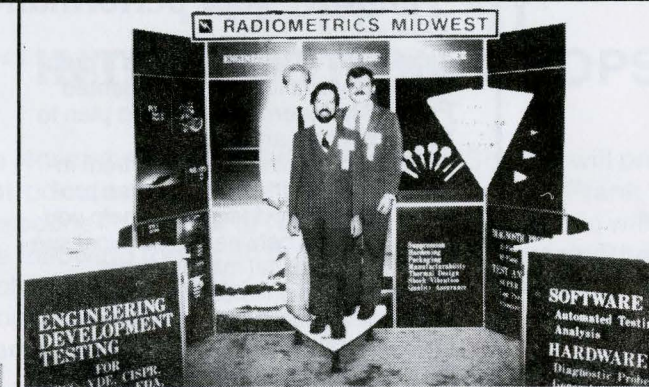
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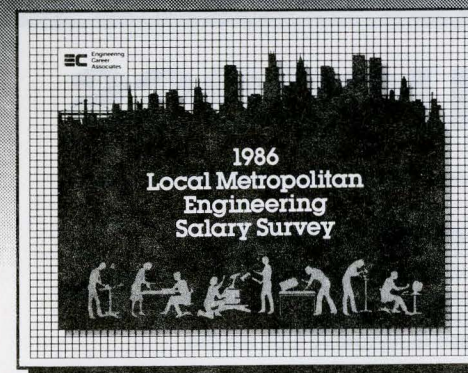
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The dinner meeting will be held at Wilton Manor, 2200 North Main Street (Main Street at Geneva Road) in Wheaton, Illinois. Social is 6:00, dinner 7:00 and the program at 8:00 P.M. Call the IEEE office for reservations.

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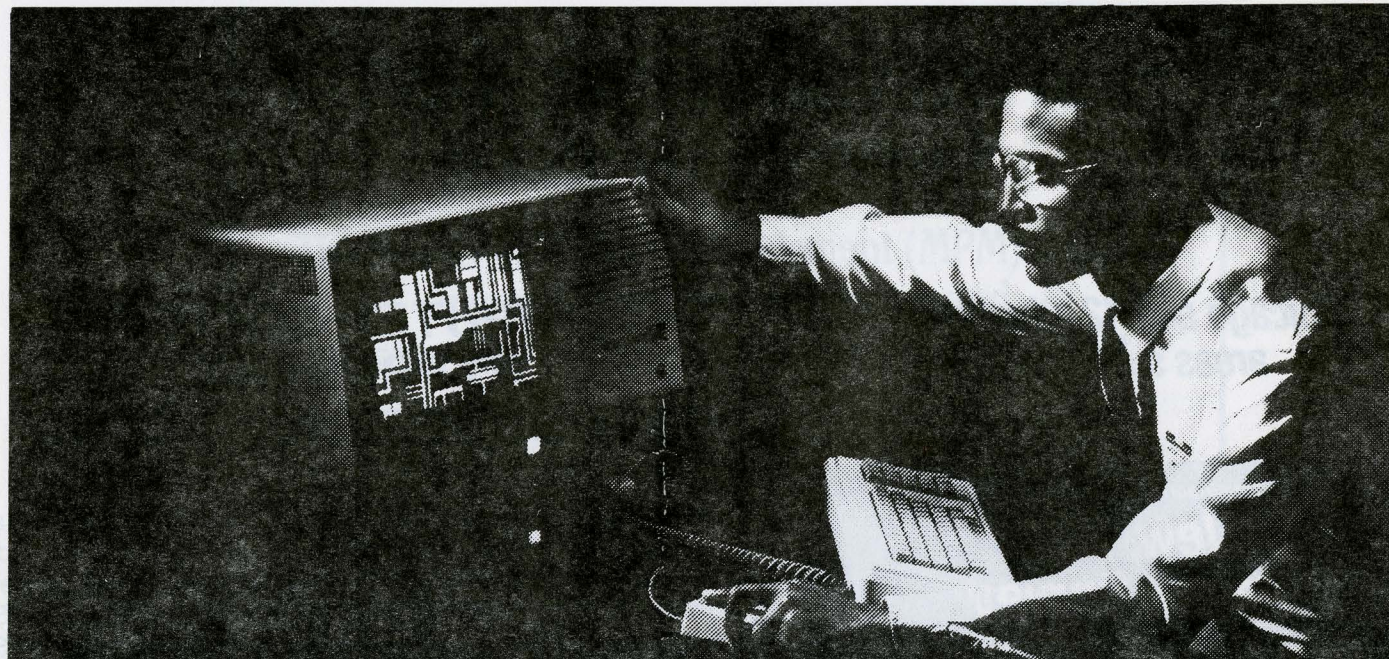
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Sr. Manufacturing Engineer

BSEE, BSME or equivalent, and 5-10 years experience within a military electronics environment. Will support manufacturing in the specification of technologies and fabricating processes utilized in the assembly of surface mounted devices, leadless chips, and power supplies used in military airborne electronic countermeasures systems. Must provide necessary expertise associated with the resolution of problems inherent to new product introduction into assembly. Familiarity with automated material handling and processing assembly technologies required.

Antenna Design Engineers

BSEE or Physics or equivalent, MS desirable. Requires knowledge

of phased arrays, monopulse D.F. systems and millimeter wave techniques.

Power Supply Design Engineers

BSEE or equivalent, MS desirable. Perform IR & D activities involving new techniques development in high voltage microwave/millimeter wave transmission, nanosecond control of high DC voltages and modulation of microwave tube devices.

Advanced Technology Engineers

MICROWAVE: Active and/or passive microwave and millimeter wave integrated circuit design experience involving components such as oscillators, amplifiers, mixers, detectors and filters and integrated subsystems. Experience with monolithic microwave integrated circuit research design/development and computer-aided design is required.

RECEIVERS: Conceptual design, fabrication, and test of state-of-the-art receiver systems for ECM/Elint applications. Familiarity with systems architecture, signal processing, and channelized, set-on, and micro-scan techniques is desirable.

ANALOG: Specialists in videoamplifiers, filters, A/D and D/A conversion; background should include feedback theory analysis and computer-aided circuit analysis.

DIGITAL: Design/develop high speed signal processing and control systems; microprocessor controlled hardware, D/A and A/D conversion, digital signal processing utilizing very high speed logic, TTI, ECL, CMOS, GaAs, Gate Arrays and Pal's.

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WEDNESDAY, NOV. 12, 1986 MEETING NOTICE

TOPIC: Electronic Systems in Commercial Buildings

SPEAKER: Paul G. Srodes of Honeywell

Schedule: 5:30 Cash Bar
6:15 Dinner
7:15 Technical Program

Location: Mr. Peter's Banquets
1018 Mt. Prospect Ave. (Rand & Central Rds.)
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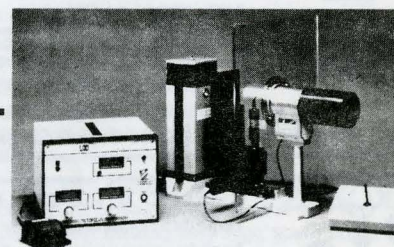
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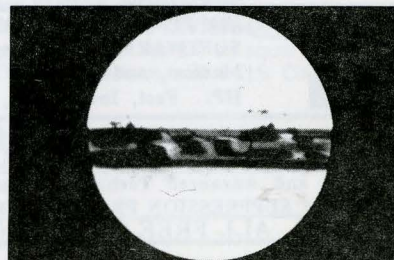
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