

Engineers Consider 1960s Their Greatest Challenge

(Editor's note: National Engineers Week was observed throughout the country last week. In connection with the week, Larry S. Horton, a registered electrical engineer employed by the California Oregon Power company, reviewed the past decade, what is in store in the 1960s, and reviewed the professional chapter of the Oregonian Engineers of Oregon. Horton is program chairman of the Rogue Valley Section of the state organization.)

By L. S. HORTON
Professional Engineer

The 10th annual observance of National Engineers Week was held from Feb. 21 to 27 by the Rogue Valley Section of the Professional Engineers of Oregon, as well as other engineering groups throughout the nation, according to R. L. Adams, of Myrtle Creek, president of the local section.

The observance this year has the theme "Engineers Greatest Challenge - The 1960's," and emphasizes the unlimited possibilities for engineering achievements for the coming decade.

A review of the past decade, the 1950's, indicates the following accomplishments in the scientific and engineering field:

The first man-made thermonuclear explosions; the nuclear power submarine and the first voyage under the North Pole; space satellites around the earth and the sun; the intercontinental ballistic missile; a rocket impact on the moon, and a rocket sent around the moon; electric power from atomic reactors; supersonic aircraft flight; jet powered air transports; the discovery of radio emission from hydrogen in space; the discovery of the Van Allen radiation belts around the earth; the overthrow of the party principle in basic physics; the bevatron; the developments and utilization of the transistor; the masser; the discovery and use of the tranquilizers and the Salk polio vaccine; the whole family of acrylic and polyester synthetic fibers; coast to coast TV broadcasting; and a definite start on the problem of controlled thermonuclear fusion.

Engineering Challenges

The major engineering challenges of the 1960's, at least as far as can be seen as the decade opens, will most likely be in such areas as the control and use of nuclear fission and thermonuclear fusion to produce electric power; the automating of production and assembly lines and processes in industry; the design, testing, operation, and production of vehicles capable of carrying man safely through space and returning him to earth, and the design and utilization of electronic computers with the ability to "think" on a level with our best human brains.

Hard on the heels of these major challenges will be a long list of other problems in electronics, structures, chemistry, radioactive waste disposal and the use of radio iso-

K-Day Chairman Named for City

Mrs. Gordon T. Elliott, 1951 West Main st., Medford, has been named chairman of the 1960 K-Day canister campaign for Kidney Disease, Edward R. Fay Jr., executive director of the National Kidney Disease Foundation, has announced.

The community-wide campaign will include placing canisters at locations throughout Medford under Mrs. Elliott's direction.

Mrs. Elliott noted that kidney diseases remain the nation's fourth-ranking death cause, and there is a need for improved patient services and crash research programs in many other kidney diseases as well as nephrosis.

"Ten years ago," she noted, "most of the childhood victims of nephrosis, one of the serious kidney diseases, did not survive. Today, through medical research, most of these children can live normal lives."

She noted, however, that kidney diseases still cause many deaths, and the national foundation's campaign will seek funds for research into the causes and cures, and for patient care.

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topes in industry and the life sciences, transportation arteries, air pollution, and land, sea, and air vehicles.

Paul Christerson, secretary to the State Board of Engineering Examiners introduced Engineers Week Jan. 15 in Medford with a talk on the new Oregon registration law, some of the problems which the board faces in administering the law, engineering ethics, engineering unity and public relations.

Major Change

The first major change in the law was to provide for an Engineer-In-Training Certificate, and he stated that during 1959, 13,000 EIT exams were given in the United States.

The first EIT exam in Oregon will be given March 18, and the board has processed 120 applications for EIT exams and 120 applications for total registration. Another EIT exam will be given at OSC in June covering another 300 applications. EIT exams will cover engineering fundamentals - science, math, economics, materials, fluids, thermodynamics, and others.

The second major change in the Engineering law was to raise the required experience from six to eight years to conform with other states.

The third major change was the so called "eminence

clause" which provides that a person 45 years of age or more who has had twelve years experience as a principal engineer may be registered at the discretion of the board on an oral exam.

Some of the administrative problems which the board must handle are:

Non-registered engineers practicing engineering; encouraging all engineers to individually police the profession since the board cannot act as investigator, prosecutor and jury; checking classified directories for violation of law; urging engineering corporations to have one of the corporate officers a registered professional engineer; interpreting of engineering-architect relations; the problem of Oregon registered professional engineers residing outside of the state who are also non-residents; the relation of land surveying and professional engineers; and, the relation of the Oregon state board to the National Bureau of Engineering Registration.

In regard to ethics, Christerson states that the board's only authority was for administering the engineering law and, since ethics was not part of the law, the board had no right to interfere with ethical questions which should be administered by the professional societies.

They'll Do It Every Time By Jimmy Hatlo



However, the board recognizes that since, in the majority of cases, unethical people are also incompetent and operating outside of the law, it is well to consider ethics in the administration of the law.

The Rogue Valley Section of the Professional Engineers of Oregon, which is composed of approximately 70 engineers from the fields of electrical, mechanical, civil, agricultural, logging, mining, chemical, structural, hydraulic from Jackson, Josephine, Klamath and a portion of Douglas county meet monthly to keep its members informed on up to date accomplishments in the engineering fields.

Its other purposes are:

Improve Standards

1. To promote and improve the standard of professional engineering by keeping in close touch with school curriculum, and practices of engineers and those in the engineering profession.
2. To promote and work with local high school students to help them in choosing engineering as a profession.
3. To help promote and formulate new legislation pertaining to engineering for the improvement and status of engineers.
4. To bring to the attention of the general public, through various newspaper, radio and other media, achievements of engineers in their particular localities and to present the benefits of such achievements to the general public.

5. To promote better professional and social relations among its members and with the public.

Education Committee

The groups education committee headed by professional engineer Frank Ross, recently screened four high school senior boys to select Jack Hoffbuhr of Phoenix High school to compete for a civil engineering scholarship.

In 1959 six students from Klamath High were sponsored by the Rogue valley engineers to the JESSI program which is the Junior Engineers and Scientists Summer Institute held at OSC each summer.

Each year members appear at the high schools and junior highs in this area to present talks about the engineering

profession for vocational studies.

Present registered professional engineers who are officers of the Rogue Valley Section of the Professional Engineers of Oregon are president, R. L. Adams, Myrtle Creek; vice president, L. M. Stinson, Medford; secretary-treasurer, W. L. Warren, Medford; trustees, H. P. Bosworth, Jr., and Robert A. Johnson, Medford, and Allen A. Alsing, Ashland.

Committee chairmen are professional improvement and education, F. E. Ross, Medford; program, L. S. Horton, Medford; practice and welfare, Harry Olson, Medford; membership, C. C. Colvin, Klamath Falls; publicity and engineer week, D. Dale Cobleigh, Medford; and legislative, Jim Hoey, Medford.

STAR GAZER

By CLAY R. POLLAN
Your Daily Activity Guide According to the Stars.

To develop message for Sunday, read words corresponding to numbers of your Zodiac birth sign.

ARIES MAR. 21-20	Taurus APR. 21-19	GEMINI MAY 21-20	CANCER JUNE 21-20	LION JULY 21-20	VIRGO AUG. 21-20	SAGITTARIUS NOV. 21-20	SCORPIO OCT. 21-20	PISCES FEB. 21-20	LIBRA SEPT. 21-20	TAURUS APR. 21-19	LEO JULY 21-20	SCORPIO OCT. 21-20	ARIES MAR. 21-20
1 Minor	21 They	41 Minor	61 They	81 They	101 They	121 They	141 They	161 They	181 They	381 They	581 They	781 They	981 They
2 It's	22 Rely	42 It's	62 Rely	82 It's	102 Rely	122 It's	142 Rely	162 It's	182 Rely	382 It's	582 Rely	782 It's	982 Rely
3 Correct	23 Advance	43 Correct	63 Advance	83 Correct	103 Advance	123 Correct	143 Advance	163 Correct	183 Advance	383 Correct	583 Advance	783 Correct	983 Advance
4 Your	24 Action	44 Your	64 Action	84 Your	104 Action	124 Your	144 Action	164 Your	184 Action	384 Your	584 Action	784 Your	984 Action
5 Your	25 Today	45 Your	65 Today	85 Your	105 Today	125 Your	145 Today	165 Your	185 Today	385 Your	585 Today	785 Your	985 Today
6 Trade	26 And	46 Trade	66 And	86 Trade	106 And	126 Trade	146 And	166 Trade	186 And	386 Trade	586 And	786 Trade	986 And
7 You're	27 Magnetic	47 You're	67 Magnetic	87 You're	107 And	127 You're	147 Magnetic	167 You're	187 And	387 You're	587 Magnetic	787 You're	987 And
8 Attractive	28 And	48 Attractive	68 And	88 Attractive	108 And	128 Attractive	148 And	168 Attractive	188 And	388 Attractive	588 And	788 Attractive	988 And
9 Talk	29 Magnetic	49 Talk	69 Magnetic	89 Talk	109 And	129 Talk	149 Magnetic	169 Talk	189 And	389 Talk	589 Magnetic	789 Talk	989 And
10 Bold	30 And	50 Bold	70 And	90 Bold	110 And	130 Bold	150 And	170 Bold	190 And	390 Bold	590 And	790 Bold	990 And
11 Delay	31 A	51 Delay	71 A	91 Delay	111 And	131 Delay	151 A	171 Delay	191 And	391 Delay	591 A	791 Delay	991 And
12 Situations	32 Prudent	52 Situations	72 Prudent	92 Situations	112 And	132 Situations	152 Prudent	172 Situations	192 And	392 Situations	592 Prudent	792 Situations	992 And
13 Or	33 Considerate	53 Or	73 Considerate	93 Or	113 And	133 Or	153 Considerate	173 Or	193 And	393 Or	593 Considerate	793 Or	993 And
14 Show	34 Of	54 Show	74 Of	94 Show	114 And	134 Show	154 Of	174 Show	194 And	394 Show	594 Of	794 Show	994 And
15 Events	35 Gestures	55 Events	75 Gestures	95 Events	115 And	135 Events	155 Gestures	175 Events	195 And	395 Events	595 Gestures	795 Events	995 And
16 The	36 Your	56 The	76 Your	96 The	116 And	136 The	156 Your	176 The	196 And	396 The	596 Your	796 The	996 And
17 This	37 You'll	57 This	77 You'll	97 This	117 And	137 This	157 You'll	177 This	197 And	397 This	597 You'll	797 This	997 And
18 Take	38 Heavily	58 Take	78 Heavily	98 Take	118 And	138 Take	158 Heavily	178 Take	198 And	398 Take	598 Heavily	798 Take	998 And
19 Better	39 Accomplish	59 Better	79 Accomplish	99 Better	119 And	139 Better	159 Accomplish	179 Better	199 And	399 Better	599 Accomplish	799 Better	999 And
20 Don't	40 Gestures	60 Don't	80 Gestures	100 Don't	120 And	140 Don't	160 Gestures	180 Don't	200 And	400 Don't	600 Gestures	800 Don't	1000 And
21 The	41 Necessary	61 The	81 Necessary	101 The	121 And	141 The	161 Necessary	181 The	201 And	401 The	601 Necessary	801 The	1001 And
22 Move	42 Before	62 Move	82 Before	102 Move	122 And	142 Move	162 Before	182 Move	202 And	402 Move	602 Before	802 Move	1002 And
23 A	43 Up	63 A	83 Up	103 A	123 And	143 A	163 Up	183 A	203 And	403 A	603 Up	803 A	1003 And
24 Before	44 In	64 Before	84 In	104 Before	124 And	144 Before	164 In	184 Before	204 And	404 Before	604 In	804 Before	1004 And
25 Sure	45 Nature	65 Sure	85 Nature	105 Sure	125 And	145 Sure	165 Nature	185 Sure	205 And	405 Sure	605 Nature	805 Sure	1005 And
26 Aggressive	46 Bold	66 Aggressive	86 Bold	106 Aggressive	126 And	146 Aggressive	166 Bold	186 Aggressive	206 And	406 Aggressive	606 Bold	806 Aggressive	1006 And
27 Side	47 Impulsive	67 Side	87 Impulsive	107 Side	127 And	147 Side	167 Impulsive	187 Side	207 And	407 Side	607 Impulsive	807 Side	1007 And
28 Side	48 Motters	68 Side	88 Motters	108 Side	128 And	148 Side	168 Motters	188 Side	208 And	408 Side	608 Motters	808 Side	1008 And
29 Often	49 Get	69 Often	89 Get	109 Often	129 And	149 Often	169 Get	189 Often	209 And	409 Often	609 Get	809 Often	1009 And
30 Little	50 Get	70 Little	90 Get	110 Little	130 And	150 Little	170 Get	190 Little	210 And	410 Little	610 Get	810 Little	1010 And
1-6-13-15	2-28	7-13-15	8-28	9-13-15	10-28	11-13-15	12-28	1-13-15	2-28	3-13-15	4-28	5-13-15	6-28
Good	Adverse	Neutral	Good	Adverse	Neutral	Good	Adverse	Neutral	Good	Adverse	Neutral	Good	Adverse

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