

MINARIK, WILLIAM.

Beer, the poorman's lemonade; illus.

29:318-319, 348

Brief biog. and photo.

29:319

MINERAL ENGINEERING.

Working with your hands: re opportunities 55:5:21-23
for mineral engineers.

MINERAL ENGINEERING DEPT.

What happens to the rock: re drill press
in Appleby Hall; illus.

35:8:21

MINERAL RESOURCES RESEARCH CENTER.

Wins grant for copper-nickel study.

55:1:29

MINES AND METALLURGY, SCHOOL OF.

Mines School gets new truck; illus.	3:6:24
Our miners tour the west; illus.	4:2:5-6, 30-31
Mines news to be reported in <u>Technolog.</u>	4:2:17
Student and faculty activities.	4:2:19
Shindig held; student activities; new course at Experimental Station being offered.	4:3:22
Miners' Shindig held; Kash and Karry Kandy Klub holds election.	4:4:19
Student activities.	4:5:22
Mining alumni achieve success.	4:7:8, 30
Student activities.	4:7:19
University receives gift of crude iron.	4:7:24

(CONTINUED ON NEXT CARD)

MINES AND METALLURGY, SCHOOL OF.

(CARD 2)

Class officers elected.

5:2:20

Searching for copper and adventure:

senior class trip to the Southwest; illus. 5:3:16

Senior class officers elected. 5:3:18

Planning Shindig. 5:4:18

Hold Shindig. 5:5:20

Spring trip announced. 5:7:20


Spring trip: George Huck has narrow
escape. 6:49

Theses required of Mines seniors. 6:82

Freshmen welcomed at smoker. 6:83

Sophomore miners sojourn in the field. 6:289,304,312

Shindig held. 7:156

 (CONTINUED ON NEXT CARD)

MINES AND METALLURGY, SCHOOL OF.	(CARD 3)
Grads bid farewell at annual banquet.	7:254
Petroleum engineering to be offered.	8:5,20
With the miners (summer field trip)	8:46
Why miners leave home (junior field trip to Arizona); illus.	9:44,58,60
With the miners at Crosby (sophomore field trip); illus.	9:78,96
Hold annual Shindig.	9:190
Students hold 21st annual banquet.	9:274
Mining students leave for Africa.	9:278
Ad for Shindig.	16:79
Miners create underground atmosphere for annual Shindig.	16:100

● (CONTINUED ON NEXT CARD)

MINES AND METALLURGY, SCHOOL OF.	(CARD 4)
Welcome, miners. Mines joins I.T.	17:13
Three mining alumni become executives in major companies.	17:42
Miners' Shindig planned for Feb.5, 1937.	17:94
Muckers' paradise (Mines trip); illus.	17:102-103
To hold series of Thursday lecture, 1937.	17:112
Miners planning spring field trip.	17:140
An underground field trip; illus.	18:53-55
1938 Mines field trip; illus.	19:8-10
Research: lead poisoning of water fowl; illus.	19:58
Research: iron ore flotation; illus.	19:108
Enlarged laboratory completed for Metallurgy Dept.	19:116

(CONTINUED ON NEXT CARD)

MINES AND METALLURGY, SCHOOL OF. (CARD 5)

Brief note re 1939 summer inspection trips of petroleum and metallurgy students.	20:18
Research: centrifugal furnace; illus.	21:105
Feature on Mines alumni.	21:88
Brief biog. and photo of Prof. Dowdell.	21:69
Research: better galvanizing; illus.	21:136
50th anniversary to be celebrated Jan. 12-13, 1942; brief history.	22:76
Research: refining of manganese; illus.	22:120
Miners score again--steal Blarney Stone; illus.	23:174
25 years in mining by Prof. Parkhill.	25:30
Four careers offered by Mines.	the School of 26:319,354

(CONTINUED ON NEXT CARD)

MINES AND METALLURGY, SCHOOL OF.	(CARD 6)
Your career in the School of Mines.	28:15,30
Miners' Shindig to be held May 8, 1948.	28:278
Introducing Mines and Metallurgy.	29:139
Microscopes in metallurgy; illus.	30:5:12-14
Research; illus.	29:160
Biogs. of faculty; photos.	31:6:16-17
Shows exhibit: Meeting the challenge of taconite.	33:2:24
What shall I study: Mineral engineering: Metallurgical engineering.	34:14-15

MINES BUILDING.

Photo.

5:6:3

Construction begins on addition.

6:118

Photo.

21:185

MINES EXPERIMENT STATION.

The new Mines building; illus.	2:8:9
Architectural rendering of building.	3:3:21
Develops ore reduction process.	6:49
Minnesota Mines Experiment Station; illus.	6:180-183
Producing pig iron in Northern Minnesota; illus.	7:74-75,88
Editorial re work of Station.	7:84
E.W. Davis tests cast iron pavement on State Street.	15:21
Tests begun on iron paving, Jan. 14, 1935.	15:107
"Tuned" pavement: re cast iron pavement.	17:106

(Continued on next card)

MINES EXPERIMENT STATION.

(CARD 2)

Magnetic ore roasting; illus.

17:134

Ore truck; photo.

17:154

Hundreds of years of iron ore: re
taconite; illus.

18:180-181

Iron ore flotation; illus.

19:108

Research in the Institute: cast iron
pavement; illus.

19:134-135

Introducing the Mines Experiment
Station; photos.

48:2:18-20

MINES EXPERIMENT STATION BUILDING.

The new Mines building; illus.

2:8:9

Architectural rendering of building.

3:3:21

Minnesota Mines Experiment Station;

illus.

6:180-183

Sketch.

14:53

MINES SOCIETY.

Brief note re activities.	4:7:19
Annual election held.	5:2:18
Brief note re activities.	5:4:20
Brief note re activities.	6:80,188
Officers listed.	16:65
Group photo.	16:139
Plans freshman reception.	17:18
Brief note re activities.	17:66
Group photo.	17:178
Officers elected.	18:43
Miners Shindig to be held Feb. 19,1938; brief note re activities.	18:119

(CONTINUED ON NEXT CARD)

MINES SOCIETY.

	(CARD 2)
Dance to be held Feb. 19, 1938.	18:94
1938 officers listed.	18:108
Group photo.	18:192
Elects officers.	18:201
Brief note re activities.	19:19
Miners' Shindig to be held Feb. 18, 1939.	19:117
Group photo.	19:197
Holds reception.	20:43
Brief note re activities.	20:114-115
Group photo.	20:202
Brief note re activities.	21:42, 63, 138
Group photo.	21:195

(CONTINUED ON NEXT CARD)

MINES SOCIETY.

(CARD 3)

Officers listed.

22:19

Brief note re activities.

22:21

Plans being made for Miners' Shindig.

22:94

Group photo.

26:343

Brief note re activities.

27:138

All Mines School societies to combine
into School of Mines Society.

30:4:17

MINING

SEE ALSO

IRON MINING.
PROSPECTING.

MINING.

A miner's experiences abroad.

4:8:7-8

With a Minnesota miner in the "world's richest hill" (Butte, Mont.); illus.

18:127-129

25 years in mining; illus.

25:30

Liquid gold, the Frasch sulphur mining process; illus.

27:59,65

MINING ENGINEERING COURSE.

Univ. of Minn. first school to offer course
in milling engineering.

28:180-181,206

MINNEAPOLIS.

For information concerning the whole metropolitan area see: TWIN CITIES METROPOLITAN AREA.

MINNEAPOLIS.

Consolidation of automatic and manual telephone service in Minneapolis; illus.	1:6:8-12
The proposed harbor of Minneapolis; illus.	6:38-39, 54
Garbage incineration in Minneapolis; illus.	7:267-268
Skyline; sketch.	8:136
Old stories of Minneapolis; illus.	8:273
At the port of Minneapolis; sketch.	9:285
Loring Park in winter; illus.	13:164
A study of Nicollet Island city planning; illus.	35:5:30-31

(CONTINUED ON NEXT CARD)

MINNEAPOLIS.

City snow removal; illus.

(CARD 2)

36:446-448

MINNEAPOLIS. BRIDGES.

Cappelin Memorial Bridge; illus.	2:2:4-6
Fire hits Cappelen Bridge; illus.	2:4:7
N.P. Bridge nearing completion; illus.	3:3:5-6,26
Mendota Bridge; photo.	6:140
Stone Arch Bridge; photo.	7:136
Third Avenue Bridge; photo.	7:136
Twin City bridge construction; illus.	7:137-138,160 174-175,192
Sketch of new Cedar Avenue Bridge.	8:4
10th ave. Bridge; sketch.	12:104
Bridge near Lake of the Isles; sketch.	12:126
A stone arch; front.	14:74

(CONTINUED ON NEXT CARD)

MINNEAPOLIS. BRIDGES.

(CARD 2)

Old stone arch; cover inset.

15:1:cover

Drawing of Washington Ave. Bridge.

15:152

Cover photo of Franklin Ave. Bridge.

19:4:cover

The Minnesota overpass (Franklin Ave.
Bridge); illus.

37:103-105

MINNEAPOLIS. BUILDINGS.

Federal Reserve Bank; illus.	5:1:7,18
West Hotel; illus.	7:110
City Hall; photo.	7:111
Flour mills; illus.	7:170-171,182
Foshay Tower; illus.	8:104-105,124
Sketch of Exposition Building.	9:4
Foshay Tower; illus.	9:115,132
Constructing the Northwestern Bell Telephone Building; illus.	11:100-101,110
Sketch of Northwestern Bell Telephone Building.	12:2
Sketch of the Basilica of St. Mary.	12:176

(CONTINUED ON NEXT CARD)

MINNEAPOLIS. BUILDINGS.

(CARD 2)

Sketch of Washburn Tower.

13:4

Sketch of St. Marks Church.

13:66

Postoffice is model of architectural efficiency; illus.

14:26-28

Ingenious arrangement of backstage wonderland makes stage shows possible in Orpheum Theatre; illus.

14:159-160

Wiley House (designed by Frank Lloyd Wright) described; illus.

15:16

The National Guard's new armory a serviceable project; illus.

16:91

Sumner Field Project: from worst slum to modern housing; illus.

18:125-126

(CONTINUED ON NEXT CARD)

MINNEAPOLIS. BUILDING.

(CARD 3)

Photo of Minneapolis Armory.

28:136

Franklin Ave. Housing Development
(theoretical School of Architecture
project) illus.

32:4:14-15

Notes re IDS Center, Federal Reserve
Bank construction; photos.

52:1:12-15

Photo of skyline.

52:4:24-25

MINNEAPOLIS HONEYWELL.

Installs incentive wage plan.

11:217

Where do Minn. graduates find their
jobs?

14:12-13

Hello Honey! Well?; illus.

33:2:16-17,30

MINNEAPOLIS MOLINE.

MM goes from tanks to tractors; illus. 33:1:20-21

MINNEAPOLIS GAS LIGHT CO.

Minnesota grads find employment in local
gas manufacture.

14:40

MINNEAPOLIS-ST. PAUL INTERNATIONAL AIRPORT

SEE ALSO

WOLD CHAMBERLAIN AIRPORT.

MINNEAPOLIS-ST. PAUL INTERNATIONAL AIRPORT.

Installation of programmable energy management
system described.

62:6:19

MINNEAPOLIS TRIBUNE.

Modern press used by the Tribune. illus. 5:4:13-14

MINNEHAHA FALLS.

Engineers and mother nature join hands.

illus.

Photo.

7:144,158

13:188

MINNESOTA.

Students protest reduction of University appropriation; ed.

1:7:14

The iron range is being electrified; illus.

5:8:8-9

Our lake and stream levels; illus.

6:70-71,92

Four engineering men placed on Senate Committees.

8:181

Gold scare at Senegoid.

17:130-131

Minnesota's natural resources; illus.

22:144-145,157

Development of minnesota's mineral resources.

46:5:12-14,55

MINNESOTA AERONAUTICAL ENGINEERING ALUMNI ASSOCIATION.

Graduates working in Calif. form club;
group photo.

17:40

MINNESOTA ASSOCIATION OF PROFESSIONAL ENGINEERS.

Men from MAPE address students.

24:129

MINNESOTA BOOK CENTER.

Advertisement.

58:2:21

Advertisement.

58:6:2

MINNESOTA BY-PRODUCT COKE COMPANY.

The by-product coke industry; illus.

2:5:12,16-17

Firm visited; illus.

3:1:12,22

Koppers coke revealed.

3:4:18

Cover photo.

19:2:cover

MINNESOTA DAILY.

A "Daily" tax? editorial.	3:5:11
Ford Motors vs. Daily (editorial in Daily re braking system in Ford cars)	8:179
Brief note and photo.	27:94
Editorial re coverage of I.T.	38:5:11,66
<u>The Daily</u> & <u>the Dean</u> (Williamson); editorial	41:8:7
Humor edition; illus.	42:7:17-20

MINNESOTA ENGINEER.

History; illus.

35:8:10-12

Students to produce first all-I.T.
yearbook.

59:7:7

MINNESOTA EXPERIMENTAL CITY PROJECT.

Living room; illus.	52:5:15,20-22
What we think, editorial.	53:7:4
Article re.	53:7:27

MINNESOTA FEDERATION OF ENGINEERING SOCIETIES.

- W.T. Ryan elected pres.; activities. 5:4:22
- Hold jt. meeting with Minn. Surveyor's
and Engineer's Society; program listed. 5:5:20-21
- Annual meeting held: Elsberg elected
pres. 8:181
- London phone call part of Bell lecture
at 14th annual convention. 16:120
- First (1946) ~~ex~~position and Victory
Conference to be held in Minneapolis. 26:204
- Centennial exposition; illus. 29:185

MINNESOTA FOUNDATION.

Institute men on Foundation Committee;
group photo.

21:43

MINNESOTA GEOLOGICAL SURVEY.

Conducting statewide program of
geologic and topographic mapping.

53:8:15

Geologic maps of Minnesota
available from survey.

55:2:32

MINNESOTA HIGH TECHNOLOGY COUNCIL.

Established to promote and establish an environment in Minnesota favorable to the creation and growth of technology-intensive industry.

63:3:5

MINNESOTA, INC.

Article re; illus.

61:3:28

MINNESOTA MINING AND MANUFACTURING.CO.

Many products tailor-made...illus.

24:93,106

M.M.M.; illus.

32:6:18-19,46

Minnesota Mining and Manufacturing;
illus.

37:267-268,

271-272

Spotlight on local industry; illus.

44:5:32,44

MINNESOTA PARACHUTE CLUB

Our newest sport. Skydiving; illus.

39:2:60-61

MINNESOTA PARAPSYCHOLOGICAL SOCIETY.

Quotes from lecture by Stanton T. Friedman
on UFO's.

58:4:21-23,25

MINNESOTA SOCIETY OF AERONAUTICAL ENGINEERS.

Aero Club organized.	9:149
Brief note re meeting held Nov. 1, 1929.	10:52
Hold joint meeting with A.S.M.E.	10:54
Hear W.C. Farnum speak..	10:96
Brief note re activities.	12:40
Sponsor talk by Bernt Balchen.	12:66
Hear talk on anti-aircraft guns.	12:138
Hear talk on planes being built for United Air Lines.	13:154
Purpose, officers, activities, group photo.	13:233
Activities, officers listed.	14:20

(Continued on next card)

MINNESOTA SOCIETY OF AERONAUTICAL ENGINEERS (CARD 2)

Brief note re activities. 14:44

U. Flying Club and M.S.A.E. to hold
joint meetings. 14:91

To stage annual party. 14:116

Group photo, photos of equipment and
activities. 14:160b

Sponsors aeronautical dance. 15:106

Group photo. 15:171

MINNESOTA SOCIETY OF PROFESSIONAL ENGINEERS:

- | | |
|--|---------|
| Description of organization. | 44:1:22 |
| Brief description; 1963 officers listed. | 44:1:32 |
| Dedicates silver anniversary roster to J.J. Ryan; photo. | 45:6:24 |
| Hopes to revive student chapter. | 55:2:22 |

MINNESOTA STARWATCH.

Awarded \$2000 by National Academy of Science
to enhance public astronomy education.

62:1:26

MINNESOTA STATE CAPITOL BUILDING.

Minnesota Capital (sic.); illus.

1:4:5-6

MINNESOTA STATE FAIR.

At the Minnesota State Fair. illus.

13:5,31-32

MINNESOTA STUDENT ASSOCIATION.

Student government at Minnesota; photo. 54:7:8-10

MINNESOTA STUDENT CHEMISTS SOCIETY.

Brief note re activities. 19:141

Group photo. 19:197

Brief note re activities. 21:63

Brief note re activities. 21:165

Officers listed. 22:19

Affiliates with the American Chemical
Society. 22:46

MINNESOTA STUDENTS MATHEMATICS SOCIETY.

Editorial re new organization.

45:6:5

MINNESOTA TECHNOLOG

SEE

TECHNOLOG.



MINNESOTA UNION.

The Minnesota Union; history, description
of organization; graph.

1:6:12-13

MINNESOTA. UNIVERSITY. ADMINISTRATION.

Order in chaos...University government.

34:7:12

Sad-ministration (cartoons)

32:8:18-19

MINNESOTA. UNIVERSITY. BUILDINGS.

Chemistry Building completed.	2:1:20
Preliminary studies being made for E.E. Building.	2:1:20
M.E. shops; illus.	2:2:12-13
The new School of Music Building; illus.	2:4:11,24
New Chemistry unit finished; additional laboratory and library facilities; illus.	2:5:8,16
Our future Minnesota (campus plans)	2:6:9,14
The new Mines Building: work started on Experimental Station; illus.	2:8:9
Engineers back Stadium drive; illus.	3:1:8-9,21
The proposed Northrup Memorial Audi- torium; sketch.	3:1:9

(CONTINUED ON NEXT CARD)

MINNESOTA. UNIVERSITY. BUILDINGS.

(CARD 2)

Architectural Society constructs model of Northrup Memorial Auditorium.	3:1:18
The new University Library.	3:2:2,32
Architectural rendering of Mines Experi- ment Station building.	3:3:21
Plans being worked out for E.E. Building.	3:6:20
A new Electrical Building.	3:7:13-14
Additions to the M.E. Shops.	3:8:13
Stadium Drive.	3:8:16
Progress made on new E.E. Building.	4:1:19
" " " " " "	4:2:20
Electrical Engineering Building; illus.	4:3:5-6,26

(CONTINUED ON NEXT CARD)

MINNESOTA. UNIVERSITY. BUILDINGS.

(CARD 3)

- Adminstration Building to house all
University offices. 4:4:6-7,26
- E.E. Building; illus. 4:5:5-7,26
- The Electrical Building. 4:6:26,28
- The Stadium goes up on schedule; illus. 4:7:5-6,32
- Plans are made for new foundry; illus. 4:7:10-12,24
- Photos of Mechanical Engineering and
Engineering Experiment Station. 5:1:1
- Stadium as seen from the air. 5:1:8
- How Minnesota's Stadium was planned;
illus. 5:2:12-14,32
- Photo of Electrical Engineering Bldg. 5:3:3
- M.E. takes over abandoned E. & M. Bldg. 5:3:19

(CONTINUED ON NEXT CARD)

MINNESOTA. UNIVERSITY. BUILDING. (CARD 4)

Photo of Experimental Engineering Building.	5:4:3
An old timer lauds his University.	5:4:16
Photo of Chemistry Building.	5:5:3
Photo of Mines Building.	5:6:3
Electrical Engineering Building.	5:6:4-8
Experimental Engineering Bldg. remodeled.	6:17
Editorial re future buildings.	6:18
Highway Materials Testing Laboratory to be new addition to Experimental Engineering Bldg.; photo.	6:81
Construction to begin on Physics Building in Spring 1926.	6:82

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MINNESOTA. UNIVERSITY. BUILDINGS.

(CARD 5)

Construction begins on addition to Mines Building.

6:118

Minnesota Mines Experiment Station; illus.

6:180-183

Highway Lab to be ready for classes by Fall 1926.

6:223

M.E. Dept. plans for new auditorium and quarters.

7:113

Photo of Electrical Engineering Lab.

7:169

Sketch of Physics Building.

7:264

Mechanical Engineering Building re-modeled; illus.

8:12

(CONTINUED ON NEXT CARD)

MINNESOTA. UNIVERSITY. BUILDINGS.	(CARD 6)
The new Physics Laboratory; illus.	8:40-42,62
Editorial re Physics Building.	8:121
An engineer looks at the Field House; illus.	8:70-71,86
Move from old to new Physics Building begun.	8:149
Storeroom added to Chemistry Building.	8:78
A glimpse of the Engineering Buildings; photo.	9:1:cover
Northrop Memorial Auditorium.	9:142,156
Description and erection of Northrop's skeletel structure.	9:143,156


(CONTINUED ON NEXT CARD)

MINNESOTA. UNIVERSITY. BUILDINGS.	(CARD 7)
Temperature control in Field House.	9:216,240
Photo of Northrop Memorial Auditorium.	10:3:cover
M.E. Building undergoes improvements.	11:106
Pioneering in Pioneer Hall; illus.	12:31,44
Experimental Engineering Building balcony extended.	12:96
Sketch of Mines Experiment Station Building.	14:53
Sketch of Experimental Engineering Building.	14:54
Photo of Chemistry Building.	14:55,108
Sketch of Main Engineering Building.	14:156
	(CONTINUED ON NEXT CARD)

MINNESOTA. UNIVERSITY. BUILDINGS.

(CARD 8)

Photos of Agricultural Engineering, Electrical
Engineering, Experimental Engineering,
Labs and Main Engineering Buildings. 14:160a-h
Field House. 15:3,18
Editorial re Main Engineering Bldg. 16:11
Sketch of Main Engineering Building. 16:30
New Hydraulic Lab is in final plans. 16:121
Six new U. building project in various
stages; resume of building at U.; photo of
Center for Continuation Study. 16:175
Hydro Lab site. 17:2
Largest collegiate hydraulics lab rises
near campus; illus. 17:6-7



(CONTINUED ON NEXT CARD)

MINNESOTA. UNIVERSITY. BUILDINGS.	(CARD 9)
Cover photo of M.E. Building.	17:5:cover
Hydraulic Laboratory; model.	17:155
Construction of atomic lab behind Physics Building; illus.	18:10-11,134- 135
Institute expands its facilities for research; illus.	18:50-52
Chem. 343 converted into laboratory for organic microanalysis.	18:118
Photo of Northrop Memorial Auditorium.	18:148
The why and wherefore of the new Hydraulic Lab; illus.	18:173-174
Photo of Northrop Memorial Auditorium.	19:26

(CONTINUED ON NEXT CARD)

MINNESOTA. UNIVERSITY. BUILDINGS.

(CARD 10)

Hydraulics Lab dedicated.	19:46
Editorial re need for new M.E. Bldg.	19:62
Photo of Stadium.	19:74
Editorial: the new union.	19:110
Sketch of Museum of Natural History.	20:47
Editorial re need for new M.E. Bldg.	20:101
Photo of Coffman Memorial Union.	21:1:cover
Our architects meet a problem (Coffman Memorial Union); illus.	21:6-8
Students' help sought to finance publication re need for Aeronautical Building.	21:90
Editorial re need for new M.E. Bldg.	21:101
Prelim. plans for new M. E. Bldg.	21:115

(CONTINUED ON NEXT CARD)

MINNESOTA. UNIVERSITY. BUILDINGS.

(CARD 11)

Photos of Chemistry, Physics, Mines,
Mechanical Engineering, Experiment Engineering
and Electrical Engineering Buildings. 21:185

Students and faculty ask action now for
new M.E. Building. 23:54

"We need more engineers"; plea for new
buildings; photo. 23:71

Give us room (M.E. Bldg.); illus. 23:72-73

We must not delay any longer: re new
M.E.-Aero Building; illus. 23:126-129

Remodeling work being done on M.E.Bldg. 23:206

Plans near completion on Mechanical-
Aeronautical Engineering Bldg. 24:181,196

(CONTINUED ON NEXT CARD)

MINNESOTA. UNIVERSITY. BUILDINGS.	(CARD 12)
Mechanical-Aeronautical Building.	24:222,234
Photo of Atom Smasher.	25:79
Photo of Coffman entrance.	26:7
Photo of Van de Graaf Electrostatic Generator.	26:9
Is it good? re lighting and ventilation in University buildings; illus.	26:146-147
Entrance to Coffman.	26:266
Engineering Experiment Station; illus.	26:331,360
Brief article re Temporary Buildings.	27:18
Nicholson Hall remodeling job; photo.	
Photo of exterior of Van de Graaf Electro- static Generator.	27:52

● (CONTINUED ON NEXT CARD)

MINNESOTA. UNIVERSITY. BUILDINGS.	(CARD 13)
Photo and brief note re Hydraulic Lab.	27:55
Photo of Pioneer Hall.	27:127
Photo of Coffman Union.	27:246
Photo of Coffman Union.	27:7:cover
Photo of Administration Building.	27:294
Description of Hydraulic Laboratory.	28:34
Brief note and photo of Coffman.	28:107
Photo of lower end of Van de Graaf Electro- static Generator.	28:110
After 28 years...a new engineering building; Mech-Aero Bldg; illus.	28:139,151
New engineering building.	28:176-179,198
Behind the scenes at the Armory.	28:276

(CONTINUED ON NEXT CARD)

MINNESOTA. UNIVERSITY. BUILDINGS.	(CARD 14)
Photo of Electrical Engineering Bldg.	29:1,6
Photo of Coffman Memorial Union.	29:8,309
New engineering building under construction; illus.	29:183
New Chemical Engineering Building now nearing completion; illus.	30:8:12-13,30
Linear Accelerator; illus.	31:7:14
Brief note and photo of Van de Graaf Electrostatic Generator.	32:6:24
Photo of Chemical Engineering Building.	33:5:16
LINAC; illus.	36:266-275
Editorial re proposed parking ramp at Washington and Union.	36:428

(CONTINUED ON NEXT CARD)

MINNESOTA. UNIVERSITY. BUILDINGS.	(CARD 15)
New lights installed in Chem. Library.	36:428
Photo of Agricultural Engineering Bldg.	38:4:15
It all started with a chain reaction (LINAC and Van de Graaf Generator); illus.	38:5:12-15,44
Gamma Irradiation Facility: the U. and the peaceful atom.	40:1:11,28
Architectural variety at the University; illus.	45:5:12-15
Introducing the temporaries; illus.	48:1:22-24
Mines Experiment Station; illus.	48:2:18-20
Coffman Memorial Union; illus.	49:1:44-45
Introducing Wilson Library; illus.	49:2:32-33

Continued on next card

MINNESOTA. UNIVERSITY. BUILDINGS.	(CARD 16)
An interview with Dean Cheston: I.T. expansion; illus.	49:3:14-15,26
The tank (van de Graaf Electrostatic Generator); illus.	53:1:10-13
Campus planning: building policy, TSF.	53:7:26
Space race: editorial re lack of study space in I.T. buildings.	54:6:4
Ouroboros; illus.	55:3:6-9
Main Engineering renamed Lind Hall; ed.	56:1:5
Plans for Civil and Mineral Engineering Building described; illus.	59:6:22-25
Phase two of Civil-Mineral Engineering building described; illus.	61:5:14-15

MINNESOTA, UNIVERSITY, CAMPUS

SEE

CAMPUS

MINNESOTA. UNIVERSITY. HISTORY.

The University of Minnesota-yesterday...
today.

25:28,50

MINNESOTA. UNIVERSITY. PRESIDENT.

Editorial re choice of new president. 55:1:4

MINNESOTA. UNIVERSITY. PUBLIC RELATIONS.

The University needs a publicity man.

2:4:10

MINNESOTA ZOOLOGICAL GARDEN.

Article re; illus.

57:2:8-12

MINNIS, VERNON F

More power to you!

36:511-512

MINORITY STUDENTS.

The Minnesota minority (re Project
Technology Power); illus.

51:6:4-6

Engineers: IT takes all kinds.

52:7:26

I.T. recruitment.

55:2:14-15

Retention a problem in recruiting
women, Blacks into engineering.

57:4:6

MIRSCH, MIRVIN.

Industrial disasters; illus.

34:4:18

Brief biog. and photo.

34:4:18

MISSISSIPPI MUD.

Pioneer Hall publication headed by Merlin
H. Berg.

12:66

MISSISSIPPI RIVER.

- Sanitary conditions of the Mississippi. 1:8:5-7
- Utilization of power at High Dam: Regents
make request for a share; illus. 3:5:7-8
- The proposed harbor of Minneapolis;
illus. 6:38-39,54
- Minnesota men work for flood commission. 7:332
- Transportation on the Mississippi River;
illus. 8:9,22
- Sketch of Mississippi River dredge. 12:26
- Upper Mississippi nine foot channel is now
under way; illus. 14:4-5,24
- Why not have an engineering college afloat
on the Mississippi;illus. 14:104-105

(CONTINUED ON NEXT CARD)

MISSISSIPPI RIVER.

(CARD 2)

Army engineers dam that river; illus.

24:95,100

Mississippi Parkway (proposed)

33:3:14-15

Le Montre Formidable--raft trip down

Mississippi River to New Orleans; illus.

36:62-67,90

126-129,160

230-233,247

Technolog's planning contest: river gorge;

photo.

48:4:20

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48:5:20

Mississippi River gorge plan; illus.

48:6:36-41

MISSOURI RIVER.

Training the big muddy; illus.

11:40-41,50

Let's harness the Missouri; illus.

28:270-271,296

MITCHELL, JIM.

Tech talk (humor column)

22:22,45,78-79,

102,134,158,

226-227,191

MITCHELL, LLOYD

1923 Civil Engineering summer camp. illus. 3:1:10-11

Photograph in football uniform. 3:1:15

Brief note re activities. 23:88

MODEL AIRPLANES.

- Testing 'lilliputs': senior aeros test model
airplane engines; illus. 17:5:111
- Mosquito engines: re model airplane
engines; illus. 20:33
- Backyard aviation; illus. 27:130-131,144
- Presenting the dyna-jet, the motor for
models; illus. 29:16-18,26

MODELS.

Models in industry; illus.

28:140-141,164

MOE, RONALD

Society shorts.

" "

" "

The free-piston engine; illus.

40:2:26-27

40:3:25,44

40:4:28-29

40:4:10-11,50

MOE, WALTER.

Illus. for article.

19:185

Brief note re activities.

24:168

MOFFETT, JOHN H

Plans are made for new foundry (in
Mechanical Engineering Building) illus.

4:7:10-12, 24-
27

Faculty sketch; photo.

9:49

Reminiscences of the Panama Canal.

illus.

11:121-123, 138

Photo.

11:121

These fresh freshmen (experiences with
freshman in the foundry)

13:14, 29-30

Faculty sketch.

14:92-93

Resigns due to illness.

16:22

MOGA, RICHARD

Fresh water from the sea; illus.

38:8:30-31

MOHAWK AIRCRAFT CORPORATION.

Engineers help to organize first Minneapolis
airplane factory. 7:254

A light airplane: product of the Mohawk
Aircraft Corp.; illus. 8:8,22

MOHN, MARGARET.

"U" Theatre; illus.

31:4:16

MONROE, FRANK M

Brief biog. and photo.

Designing tomorrow; illus.

27:204

27:248-249,255

MONSON, RALPH E

- Dneprostroy, world's greatest dam.
illus. 13:71-71,95
- Nels W. Elsberg, Minnesota State
Highway Commissioner; photo. 13:114
- Oscar spills the dope on the Tech
Frolic. 13:150
- 1933-34 editor of Technolog; brief
biog and photo. 13:254
- Surveying the 1933 Civil engineering
camp. illus. 14:3,22-23
- The manufacture of beer. illus. 14:8-9,17
- Rambling reminiscence; editorial. 14:10
- Ready-mixed concrete simplifies
operation. illus. 14:126-127

(Continued on next card)

MONSON, RALPH E

(Card 2)

Book notes.

14:134

1933-34 editor of Technolog; brief
biog and photo.

14:172

MONSON, STEVEN J
Photograph.

63:5:19

MONTAGUE, ROBERT.

Brief biog. and photo.

28:328

MONTGOMERY, FRANZ.

Publishes freshman English text.

13:19

MONTILLON, GEORGE D

Awarded Tau Beta Pi freshman prize.

17:202

'Tagged' atoms: re Van de Graaf

Generator; illus.

18:10-11

Tractor production.

20:14-15

Photo.

20:14

The Institute's crying need for a new Mechanical Engineering Building to replace a makeshift shed; editorial.

20:101

Brief biog.

20:180

Those unforgettable senior spring trips:

Mechanical; illus.

20:208

MONTILLON, GEORGE H

Chromium plating; illus.

9:76,92

Spends sabbatical leave at Michigan
working on fellowship.

10:94

To return from Michigan.

10:262

Better, cheaper high temperature
heating with organic fluids; illus.

12:158-159

Research in the Institute: Electro-
deposition.

19:154

MONTONNA, RALPH E

Zeolite water softeners; illus.

7:202-203,224

Rayon; illus.

9:8-9,26;38-

39,52

Research on cheaper cellulose from "weed"
trees.

19:83

On sabbatical at U. of Birmingham.

18:143

Biog. and photo.

20:70

Article re flaxstraw research; photo.

22:121

Alpha Chi Sigma gives departure party.

27:122

MOON ROCK.

Article re research on the University's
moon rock being done by V. Rama Murthy and
Robert Pepin; illus.

50:1:19-23

Article re research by Robert Pepin.

62:3:17

MOCNEY, HAROLD.

Metals and mines; illus.

31:6:17

Brief biog. and photo.

31:6:17

MOORE, GEORGE E.

You and your future.

Brief biog & photo.

40:7:16-17,22

40:7:17

MOORE, ROBERT.

Testing 'Lilliputs':re testing of model
airplane engines; illus.

17:111

MOORE, WINIFRED.

1927 Engineering Day Queen; photo.

7:236

MOORHEAD, SAMUEL.

- | | |
|--|---------|
| 1948 E-Day decorations chairman; note and photo. | 28:328 |
| 1949 E-Day general chairman; photo. | 29:324 |
| 47th annual Engineers' Day proclamation. | 29:321 |
| <u>Here's to the sagacious senior</u> ; illus. | 30:5:21 |

MORAN, JACK.

Director of Project Technology Power;
Photo.

51:6:6

Quoted re course on teaching in the
Dept. of Aerospace and Mechanics.

56:6:13

MORAVEC, TERRY

Grinding the gears.

39:1:22

Race and Rally.

39:2:18-19

Race and Rally: MG

39:3:16-17

Natural gas; illus.

39:4:18-19,49

Race & Rally

39:4:26,50

St. Pat candidate, 1959; photo & note.

39:7:27

1959 St. Pat; photo.

39:8:17

MOREHEAD, ALLEN

Research on noise in electronic
devises.

38:7:42

MOREY, RICHARD.

Sandcastle.

54:6:19-21

What is a Roving Photon?.

55:5:6

Undergraduate astro-physics.

55:6:7

MORK, GEORGE W

Chairman of E-Day; pic.

5:7:16

Brief note re activities.

16:176

MORRILL, JAMES LEWIS.

A message from Pres. Morrill; photo.

Greetings; photo.

26;7,31/2

27:10,32,40

MORRILL HALL INCIDENT.

Editorial comment.

49:5:8-9

MORRIS, GEORGE E

Brief note re activities.

12:191

Brief note re activities.

16:80

Hailed as war hero.

22:184

MORRIS, VLON N

<u>Chemical warfare and its problems</u> ; illus.	5:7:13,28
<u>How many colloids did you use today?</u>	5:8:15
<u>To be or not to be; chemical warfare</u> ; illus.	6:141,158

MORROW, LEIGH.
Photo.

21:184

MORSE, ALBERT W

- 'N.P.' bridge nearing completion; track
removal will be an important step in
Greater Minnesota Plan. illus. 3:3:5-6,26
- Uses of the storage battery. illus. 3:4:9,30
- Utilization of power at High Dam. illus. 3:5:7-8
- Carrier wave telephony. illus. 3:6:10,29
- Mines School gets new truck. illus. 3:6:24
- A new Electrical Building.illus. 3:7:13-14
- Encircled with 110,000 volts (electric
power lines in the Twin Cities) illus. 4:3:13,24
- Alumni show interest in College. illus. 4:4:11,28
- High screen efficiency secured (motion
picture projection) 4:5:11,27

● (Continued on next card)

MORSE, ALBERT W

Card 2

St. Patrick is with us again. illus.

4:6:5,28

The Electrical Building.

4:6:26,28

An interview with Harrington Beard.

illus.

5:1:14,18

Band goes to Michigan. illus.

8:73,98

Details of the Foshay Tower. illus.

8:104-105,124

Chairman of Gridiron Banquet; photo.

9:149

MORSE, C

R

Takes 3rd in Candid Camera Contest;
illus.

18:37

MORSE, GEORGE H

Brief note; photo.

10:48

MORTAR AND BALL.

Iniates listed.	5:6:18
Iniates listed.	9:86
Iniates and new officers listed.	10:104
New pledges listed.	11:46
Iniates listed.	12:38

MORTENSON, JAMES.

A review of recent aircraft highlights;
illus.

25:263-265,284

MORTON, HAROLD.

Brief biog. and photo.

24:176

The origin of modern ship tank testing;
illus.

24:182,202

MORZENTI, OTTILIO.

Flash! Electrical Show...photo.

17:168

MOSKOVITZ, BENJAMIN.

Develops new nitrate determination.

50:52


MOSQUITO ENGINES

SEE

MODEL AIRPLANES.



MOST, DOREE A

Brief biog. and photo.	25:24
Photo.	25:31
Brief biog. and photo.	25:230
<u>The lowdown on the gas turbine</u> ; illus.	25:235, 244
Brief biog. and sketch.	25:270
<u>Is it good?</u> (U. lighting and ventilation); illus.	26:146-147
<u>MOST anything</u> ; photos of authors.	26:172, 216, 260, 308, 370
Brief biog. and photo.	26:286
Photo.	26:333
Brief biog. and sketch.	28:134
<u>After 28 years a new en</u>  <u>gineering</u> <u>building</u> ; illus.	28:139, 151

MOTION PICTURES

SEE ALSO

PHOTOGRAPHY.

MOTION PICTURES.

High screen efficiency secured.

4:5:11,27

Chemistry in the motion picture industry; illus.

6:250-251...

286-288...

Synchronized pictures.

9:180-181,206

Moving pictures in color for the amateur; illus.

10:118-119,132

Engineers in Hollywood; illus.

20:88,90

MOTL, C
photo.

L

3:5:12

MOTL, DANIEL.

An Air pirate, the Corsair; illus.

24:32,38

MOTL, LARRY.

Slip stick side lights; photo of Motl. 31:3:20

PrE-Views. 31:4:24

5:22

6:32

7:26

47th E-Day proclamation. 31:8:15

MOTL, WOOLSEY.

<u>Magazine reviews</u> (i.e. digests)	18:24
1938/39 editor of the Technolog; photo.	18:195
<u>It's been fun</u> (closing editorial)	19:184
1939 St. Pat; photo with Queen.	19:189
<u>It was worth while</u> (re Technolog); photo.	20:69
Brief note re activities.	20:166
Brief note re activities.	21:19

MOTOR RACING

SEE

AUTOMOBILE RACING.

MOTOR TRUCKS

SEE

TRUCKS AND TRUCKING.

MOTOR VEHICLES IN WAR

SEE

TANKS



MOTORS, BOAT

SEE

OUTBOARD MOTOR.

MOULTON, ROBERT.

Oil inspection; photo.

20:15

MOUNT PALOMAR OBSERVATORY.

200 inch telescope; a four year perspective;
illus. 17:56-57

Description, facts, statistics, etc.;
illus. 28:316-318, 348

MOUNT RUSHMORE MEMORIAL.

The rushmore Memorial; an American epic;
illus.

10:260

MOUNTAIN CLIMBING.

Them thar hills; illus.

29:272-274,294

MRACHEK, LOUIS.

Knighting committee chairman; photo.

27:263

MRI

see

Magnetic Resonance Imaging



MUCKENHIRN, O WILLIAM.

Appointed to EE Dept.

19:19

Starts new war course.

23:22

Returns from leave of absence.

26:158

Biog. and photo.

31:3:18-19

MULLEN, FRANCES.

Named St. Patrick for 1930.

10:194

1930 St. Pat. photo.

10:264

Brief note and photo as St. Pat.

11:134

MULLER, ROBERT.

The electric locomotive is 75 years old;
illus.

2:2:18-19

MUNGER, MAURICE.

Modern press used by the Tribune. illus. 5:4:13-14

MUNRO, W D

What shall I study? Math.

34:6:11,32

MURPHY, PAT.

This month; illus.

24:24

MURPHY, RICHARD T

More floating power with marine diesels;
illus.

30:4:8-9,30

MURPHY, T E

Performance characteristics of jet engines
studied; illus.

32:5:16

MURRAY, JOHN.
Alumnotes.

18:45,62,95

MURTHY, V

RAMA.

Article re his research on the University's
moon rock; illus.

50:1:22-23

Photo.

50:1:22

Interviewed re his role as Dean of I.T.;
photos.

63:2:36-37,

44

Leaves position of dean of I.T. returns to teaching
and research; photo.

65:1:7

MUSEUM OF NATURAL HISTORY.

Auditorium chairs described.

20:44

Drawing.

20:47

Brief description and photo.

45:5:12

MUSEUM OF SCIENCE AND INDUSTRY, CHICAGO.

Science speaks in unique industrial
museum. illus.

13:226-227,247

MUSIC.

Clavilux--organ of light; illus.

6:151

Uncultivated, no! there is music for
engineers; illus.

21:200

Blues in the night (piped music);
illus.

24:87-88

Tech teachers are music masters; a
Technolog survey; illus.

24:94

MUSIC BUILDING

SEE

SCOTT HALL.

MUSIC DEPARTMENT.

Article re synthesizer, illus.

57:3:21-23

MYKLEBUST, LEN.

Patriotism vs. flag waving.

31:6:9

NASA

see

National Aeronautics and Space
Administration.

NAGLE, NORMAN C

Franklin Avenue housing development;
illus.

32:4:14-15

NAKA, ROBERT.

Electrical shorts: fungus on the march;
illus.

26:19

NARUM, PAUL.

1949 St. Pat; note and photo.

29:322-323

NARUM, QUINTIN A

A product of chemistry, acetate rayon;
illus.

Brief biog. and photo.

30:8:8-9,27

30:8:9

NASH, KATHERINE.

Article re her computer art; photos. 53:4:12-15

NATHANSON, MARSHALL S

Personnel testing.

Brief biog. and photo.

Money grows on trees!

31:4:8-9,22

31:4:9

32:1:16,38

NATIONAL ACADEMY OF SCIENCES.

University of Minnesota members listed as of
1977.

57:6:4

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.

U of MN astronomy professors hope to use NASA's Hubble Space Telescope for their research, details; illus; photos.

70:4:12-15, 18

IT seniors designing a transport system for NASA's proposed journey to Mars, details; illus.

71:4:23

NATIONAL DEFENSE.

The engineer serves his country in industry-
not the army.

22:9

The U.S. needs metals for defense;
illus.

22:116-117,126

NATIONAL DEFENSE STUDENT LOAN.

Federal student loans; editorial.

41:1:11

NATIONAL INTERCOLLEGIATE FLYING CLUB.

U. Aeros active in national fly club.

15:181

NATIONAL SOCIETY OF PROFESSION ENGINEERS.

Unions for engineers.

27:87

Professional engineering.

37:527

Editorial re initiation of student
branch on campus.

38:6:11

NATIONAL STUDENTS ASSOCIATION.

As we see the National Students Association
and its effect on you.

28:19

NATURAL GAS LINES.

Twin Cities may use large gas engines if
lines are extended; illus.

14:157-158

Natural gas; illus.

28:264-265

NATURAL RESOURCES.

Conservation of our resources; illus. 6:110-112,124

Speakers discuss natural resources for
Sigma Xi. 15:110

Minnesota's natural resources; illus. 22:144-145

NAVAL ORDNANCE.

Minneapolis, the home of naval ordnance;
illus.

24:124-125

NAVIGATION.

Developments in aerial navigation.

10:46,64

Art of navigation develops from lodestone
to gyrocompass; illus.

15:50-51,62

NAVY ROTC

SEE

ROTC.

NEAL, DON.

<u>Electronically controlled fuel injection.</u>	51:5:18-21, 30
Technology in art: Part 1.; illus.	51:6:10-11, 14
" " " " 2; illus.	51:7:4-6
<u>Video impressions</u> ; illus.	52:4:17

NEAL, J H

Resigns from Agricultural Engineering
Department.

20:18

NEALE, GORDON.

Brief biog. and photo.

28:6

1951 St. Pat candidate: brief biog.
and photo.

31:7:16,36

NELA PARK.

Nela Park: university of light. 6:2:47,58

Nela Park-a human organization; illus. 7:10,30

NELSON, BRUCE D.

MHD; illus.

51:2:14-15,22-25

The Engineer in Training
Examination.

51:5:8

NELSON, CARL.

St. Paul loop redevelopment planned; illus.

34:6:14-15

Ralph Rapson, new head, School of Archi-
tecture; illus.

52

35:1:24-26

NELSON, CARL C

An improved stroboscopic slip meter.
illus.

7:208

NELSON, CLARENCE H

Minnesota's electric power industry. illus. 5:4:10-12

NELSON, DONALD M

Quoted for support for new Mechanical
Engineering Building; photo.

23:71

NELSON, GEORGE A

Long trestle built in record time. illus. 5:6:9

The Twin Cities Ford Plant. illus. 6:7-9

Brief note re activities. 15:58

NELSON, JON C

The dreamers.

54:4:15-18

The pawn (fiction)

55:1:24-27

Infinity.

55:6:33-35

NELSON, O RAY.

American Institute of Architects; photo. of
author. 33:5:21

NELSON, PAUL B

- Vive la band-a loyal organization; illus. 5:2:11
- Experiences of a '23 grad in Africa: re
Henry La Tendresse; illus. 5:7:5-8
- The story of Kilpatrick and Pearson,
the crooning cowboys; illus. 6:114, 128
- William F. "Bill" Stout, inventor of the
all-metal airplane; illus. 6:148-150
- George D. Shepardson, 1864-1926; photo. 6:290, 312
- The wages of engineering. 7:5, 28
- The engineer's homecoming: re first
welcome for returning alumni. 7:43
- Engineers and mother nature join hands:
re Minnehaha Falls. 7:144, 158

(Continued on next card)

NELSON, PAUL B

Elected Western Vice Chairman of E.C.M.A. 8:78

With a Minnesota engineer in Europe;

illus.

10:58

Brief note and photo.

11:134

Six years out-and now! re education
and extra curricular activities; photo.

13:67,96

Brief note re activities; photo.

15:34

NELSON, ROBERT E
Photo.

21:184

NELSON, ROGER.

Rain for sale; illus.

32:5:18-19,32

NELSON, STEVE.

Cartoons.

50:8:23

NEMANIC, DONALD.

Free beer! illus.

32:3:14-15,32

NEMEC, JEAN.

Biog. and photo.

19:146

A free trip to the fair(New York
World's Fair); illus.

19:152-153

NEMO, STU.

Log's log.

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48:1:48

48:2:38-39

48:3:18-19

48:4:52-53

48:5:44-45

48:6:52-53

48:7:18-19

48:8:32,38

NEON SIGNS.

The modern neon sign; illus.

12:108-109,118

NESHEIM, JOHN L.	
<u>Maybe tomorrow.</u>	42:1:21,29
<u>Dumping profile.</u>	42:4:6-7
Brief biog.	42:4:7
<u>Use your Engineering Library.</u>	42:6:16-17
Brief biog.	42:6:16
<u>Technological, fast-growing California;</u> illus.	43:1:18-19
<u>Why graduate school?</u>	43:5:20-22
Brief biog.	43:5:21

NETHERLY, GEORGE P
Tantalum alloys.

9:146,154

NEUBAUER, W L

Resigns for position in Agricultural
Engineering at University of California. 21:43

NEVEAUX, ROBERT J

Heat without fire; illus.

35:6:58-60

NEY, EDWARD

Brief biog. on receiving Regents'
Professorship.

55:1:29

Quoted re his research using a flying
observatory; port.

56:5:16-18

NEY, EDWARD P

- Research: pictured with cloud chamber. 28:62
Whodunit contest (humor) photos. 32:4:20-21
Article re cosmic ray research being done
by Ney & Winckler; illus. 38; 3; 20-22
Corona of the sun; re his theories;
illus. 40:2:16-17, 44
Photo. 40:2:44
Article re his research on the solar
corona; illus. 44: 5: 8-11, 38
Biog. and photo. 42:8:26
Operation solariscope; illus. 44:3:18-19, 32

NEW YORK CITY.

As a westerner sees New York.

4:5:13,26-27

A free trip to the fair (World's
Fair); illus.

19:152-153

NEW ZEALAND.

Engineering difficult at Antipodes. illus. 15:8-9,22

NEWHART, HORACE.

Research in the Institute: hearing
aids.

19:82-83

NEWHOUSE, JOHN.

Engineering homecoming.

9:10

NEWHOUSE, JOHN C
Photo.

9:218

NEWHOUSE, WILLIAM H

Chairman of Electrical Party; photo.

9:218

NEWKIRK, BURT L

The mercury turbine. illus.

6:184-185,198

Gives lecture here on applied mechanics.

6:118

NEWMAN, MORRIS.

Brief note re activities.

13:81

Like bombs exploding; re experimentation with high voltage insulating equipment.

20:68

Photo.

20:205

Publishes paper on study of lighting.

23:52

NEWMAN CLUB.

Engineers active in Newman Club affairs.

13:121

NEWSWEEK.

Newsweek (parody); illus.

29:188-189, 210

NEWTON, ROBERT

The brain schematic presents a new
way; illus.

38:1:32-33,96

NEY, EDWARD P

To lead group to view solar eclipse, 1979. 59:4:10

NICHOLAS, JOHN EDWARD.

Faculty sketches. photo.

9:119

Future engineering education.

9:177

Photo.

9:177

NICHOLS, NATHANIEL B
Biog. and photo.

31:3:19,40

NICHOLSEN, RICHARD.

Austin plant uses chlorination in disposal
of packing wastes (2nd prize winner of
1931 Technolog student article contest) illus. 12:86-87,
99

NICHOLSON, EDWARD.

The Lanchester harmonic balancer.

5:7:27

NICHOLSON, H

G

Bituminous treatment of Minnesota highways.
illus.

7:172-173

NICHOLSON, MORRIS E.

Metallurgy..A new science from an
old art; illus.; Photo.

Biog. and photo.

38:6:14-17

44:4:43

The history of materials science;
illus.

Biog. and photo.

47:3:18-22

47:4:20

NICHOLSON HALL.

Photo and brief note re remodeling.

27:28

Area vacated by bookstore to be used
as commons room.

57:5:5

NICKERSON, EDWARD.

The vee-type Cadillac engine. illus.

4:4:10,30

Five cylinders in line.

5:8:18

Knight motors (sleeve valve auto engine).

10:166

NICOLLET ISLAND.

A study of Nicollet Island city
planning; illus.

35:5:30-31

NIELSEN, RUSSELL L

Brief biog. and photo.

21:172

Television; is it here? illus.

21:176-178

Brief biog. and photo.

22:52

Electrical recording words on wax;
illus.

22:56-57,67

NIENABER, J I

Naval reserve gives instructions and trains
men for air service. illus.

14:101-103

NIER, ALFRED O	C	
K-40, new potassium isotope discovered by Nier.		16:60
Research on atomic weights described; photo.		19:109
Photo.		21:60
Mass spectrographic research: ion isolation; illus.		21:60-62
Photo.		27:16-17, 38
<u>What shall I study? Physics.</u>		34:6:10, 28
The 'Log' introduces: Dr. A.O.C. Nier.		38:8:32-33
Article re his life and work; photos.		53:5:7-9

(Continued on next card)

NIER, ALFRED O C

(Card 2)

Article re his involvement with the
Viking probe to Mars; ports.

56:2:10-13

Biography; port.

F1:1979:26-28

Elected to National Academy of Arts
and Sciences.

61:1:12

Port.

61:4:cover

Nier on nuclear; port.

61:4:26-32

Interview re nuclear power; power.

64:2:28

NILMERG.

Photo and biographical article of
Nilmerg (the office jinx)

23:220

25:136

NIMMERFROH, LAURENCE J.

Treasure hunt.

43:3:34

Data Processing Center; illus.

43:4:26-27

46-47

Brief biog.

43:4:26

Treasure hunt.

43:4:34

" "

43:5:48

" "

43:6:11

What's new in engineering.

44:1:38

" " " "

44:2:34-35

" " " "

44:3:30-31

9XI

see also

W9YC

WLB

KUOM

9XI

University Radio Station.	1:3:18
On the air again.	3:6:20
Broadcasting on standard frequencies to begin.	5:4:18
Setup described; operators listed.	5:4:21
Spans 9,000 miles.	5:5:20
Transmits 2 messages in Esperanto to South America.	6:153
"U" Radio Station 9XI-WLB near comple- tion; excellent programs arranged.	6:188
9XI-WLB; experimental radio station of the University of Minnesota; illus.	6:216, 238
Radio heads and instruc- tors in Electrical Engineering Dept. listed.	8:60

NITIKMAN, HERSCHEL.

Brief biog. and note.

26:4

A quick breeze on synthetic hurricanes;
illus. (re wind tunnels)

26:15,28

There's a plane in your future; illus.

26:96-97,110

Airplane speed record breakers; illus.

26:144-145,162

NITROCELLULOSE.

A modern protective film.

7:235,248

NOISE.

Noise and its control.

10:12-13,24

Noise and its control.

11:12-13,24-

26

About noises and engineering; illus.

15:146-147

NOLAND, WAYLAND E.

Chemicals and food.

51:1:14-15,16-20

NOLL, VICTOR H

University Press publishes his book on
laboratory work in chemistry.

11:48

NOMOGRAMS.

Nomograms-what are they?

15:127,132

NORBERG, ARTHUR L

Interviewed re nuclear power; photo.

64:2:26

NORDENSON, JOHN W

Metal powder castings; illus.

34:1:12

NORDQUIST, FREDERICK CLYDE.

- Behind the scenes with homecoming; illus. 28:22,23
Research at Minnesota; illus. 28:62,112,152,
192,282
Brief biog. and sketch. 28:134
Photos. for article. 28:320-321
Behind the scenes; photos. 29:34-25,68-69
Photos. for article. 29:292-293
It's your health. 30:4:24

NORDSTROM, ROBERT
1965 St. Pat; photos.

45:8:22-24

NORTH CENTRAL ELECTRIC ASSOCIATION.

N.C.E.A. to meet in Minneapolis.

10:153

NORTHERN PACIFIC RAILROAD BRIDGE.

Nearing completion: track removal will be
an important step in Greater Minnesota plan;
illus.

3:3:5-6,26

NORTHERN STATES POWER.

To expand.	3:5:26
Encircled with 110,000 volts; illus.	4:3:13,27
NSP Building; photo.	11:120
1932 (2nd) prize awarded to Harlan D. Boss.	12:210
1934 prize awarded to Esther Shapiro and Ralph Swan.	14:177
1937 prize awarded to Marvin Johnson and Robert Calrow.	17:193
More power to you; illus.	33:7:16-17,38
Spotlight on local industry; illus.	44:4:24
Spotlight on local industry; illus.	46:3:22-24

NORTHRUP, CYRUS.

Dr. Henry T. Eddy (biography)

Photo.

2:3:7

2:6:2

NORTHRUP MEMORIAL AUDITORIUM.

The proposed Northrup Memorial Auditorium; sketch.	3:1:9
Architectural Society constructs model.	3:1:18
The Northrup Memorial Auditorium; illus.	9:142,156
The skeleton of the auditorium; illus.	9:143,156
Photo.	10:3:cover
Photo.	18:148
Photo.	19:26
Interior view.	27:166

NORTHWEST AIRLINES.

From shoestrings to strato-cruisers: the
story of Northwest Airlines; illus.

32:3:16,38

NORTHWESTERN AERONAUTICAL CORPORATION.

Paratroopers carried by gliders for invasion;
illus.

24:156-157

NORTHWESTERN BELL.

Constructing the Bell Telephone Building; illus.	11:100-101,110
Sketch.	12:2
Photo of main control panel.	28:216
Applied research at Bell System laboratories.	33:6:16-17,60
Spotlight on local industry; illus.	44:8:16

NORTHWESTERN RAILROAD.

The Northwestern carries on; illus.

4:4:5,30

NORTNER, S

E

Stability of river boats. illus.

10:117,136

NORTON, BRITT.

Brief biog. and photo.

66:3:25-26

NORTON, DON.

Study skills for I.T. students.

46:2:34-36

NORTON, HORACE.

Frosh capture Gonfalon in annual scrap;
illus.

11:45

Mechanical building undergoes improve-
ments.

11:106

Brief note re activities.

17:64

Brief note re activities.

19:44

NORWAY.

Engineering overseas; illus.

8:169-171,184

Surveying through mountainous Norway;
illus.

13:196-197,216

NOVA SCOTIA.

Nova Scotia-land of fish-cats-rabbits-
elephants; illus.

17:14-15

NUCLEAR POWER

Faculty opinions re future applications;
ports.

64:2:26-29

Student poll concerning nuclear power
interpreted.

64:3:13-14

NUMBERS.

The theory of numbers.

3:2:16

NUMERICAL ANALYSIS CENTER

SEE ALSO

COMPUTER CENTER.

NUMERICAL ANALYSIS CENTER

U of M. computer (re Control Data 1604)

42:8:22

NUTTING, HORACE.

On swimming team; photo.

3:6:13

Brief note re activities.

15:169

NYE, TERRI.

Ecolibrium.

52:8:17

NYQUIST, ROY A

The Caissons go rolling along; coast defense
men training at Fort Sill, Okla.

7:8,24

NYSTROM, PAUL E

The Mines Building; illus.

2:8:9

The new University Library.

3:2:5,32

OAK STREET LABORATORIES.

- Institute announces curriculum changes,
laboratory expansion. 18:20
- Institute expands its facilities for
research; illus. 18:3:50-52
- Research in the institute:auto cylinder
wear; illus. 20:5:110
- Permafrost research; illus. 27:3:102
- Windtunnel, interior view; photo. 28:1:12
- Minnesota and Ontario Paper Co. project
on insulating board; illus. 28:2:62
- Brief article re thermal decomposition
research; illus. 28:234

(CONTINUED ON NEXT CARD)

OAK STREET LABORATORIES
Permafrost research.

(CARD 2)
36:20-21

OBERG, ARLENE.

The Tech Commission: voice of the I.T.
student.

41:1:24-25,36

O'Brien, Robert J.

The Technical Association.

1962 St. Pat; photos.

42:1:14, 34

42:8:6-11

O'BRIEN, THOMAS.

Appointed Assistant Professor.

26:158

OBSERVATORY
Sketch.

9:9:cover



OCCUPATIONAL DISEASE

SEE

INDUSTRIAL DISEASE.

O'CONNOR, PAUL R

Biog. and photo.

Biog. and photo.

31:5:18

42:1:22

ODDEN, ROBERT.

Over the editor's head (humor)

20:48,71,118,
143,173,220

OFFICE OF TECHNICAL SERVICES

SEE

U.S. OFFICE OF TECHNICAL SERVICES.

O'GARA, JAMES.

Director of project to create underground
heat-storage bubble to test feasibility of storing
summer heat for winter use; brief note re project.

62:3:21

OGATA, KATSUHIKO.

Named 1980/81 Outstanding Advisor.

62:1:26

O'HARA, JAY L

Formulas in industrial management.

6:113,130

OIL

SEE

PETROLEUM.



OIL BURNERS.

Minnesota prof. (Shipley) develops new type
of oil burner; illus. 3:7:20

You can't fool an oil burner control
system; illus. 13:166-167,180

OJAKANGAS, RICHARD W

His Minnesota's Geology reviewed; illus. 63:3:20-21,28

OLD MAIN.

Article re plaque of Old Main designed
by S. Chatwood Burton. illus.

12:192

OLDS, NANCY.

Brief biog; photo.

26:277

OLEN, ROGER.

1952 E-Day Publicity chairman; photo. 32:8:38

1953 E-Day Co-chairman; photo. 33:8:5

OLEKA, JEAN

1956 E-Day office manager; photo.

36:543

Photo.

36:566

574

578

1957 E-Day Brawl chairman; photo.

37:615

OLIVER IRON MINING COMPANY

Iron means job.; illus.

33:8:20-21,34.

OLLILA, CLIFF.

<u>Splinters from the log.</u>	50:1:52:53
" " " "	50:2:46
" " " "	50:3:40
<u>The symbol things in life.</u>	50:4:40
<u>Splinters from the log.</u>	50:4:41
<u>The symbol things in life.</u>	50:5:38
<u>Splinters from the log.</u>	50:5:39
" " " "	50:6:37
<u>The symbol things in life.</u>	50:6:37
<u>Splinters from the log.</u>	50:7:26-27
<u>The symbol things in life.</u>	50:8:24
<u>Splinters from the log.</u>	50:8:26-27

OLSON, CARL VERNON.

Magazine reviews. 18:69,92,113

Industrial relations and the engineer;

II. Cooperation; illus. 18:160-161

For ambitious engineers only; illus. 19:5-7

This month's authors: Brief biog. 19:23

Sharpen your axe; illus. 19:85

Faculty sketch: Prof. J.M. Bryant;

photo. 19:114

Editor of Technolog for 1939-40; photo. 19:187

Hello! and stuff; editorial. 20:7

Engineer on the spot; ed. re technology
and unemployment. 20:29

(Continued on next card)

OLSON, CARL VERNON.

(CARD 2)

One thing the engineer has not yet learned; editorial.

20:53

Don't scuttle your faith in man; editorial.

20:77

Silver-wire efficiency; editorial.

20:125

1940-41 Business manager of the Technolog; photo.

20:196

Photo.

21:187

Brief note re activities.

22:42

OLSON, GLENN.

A4A (long distance telephone systems);
illus.

32:1:14-15

OLSON, JOHN.

Learn and work; illus.

34:2:18

OLSON, MARK.

1938 Saint Pat and his queen; photo.

18:182

Photo.

20:151

OLSON, MILES B

Photo and biog.

23:4

High speed casting with spinning molds;
illus.

23:12-13

General Chairman of E Day; photo.

23:137

Biog. and photo.

24:2

After the airplane then what? re
rockets.

24:8,17

OLSON, PAUL.

A House in the desert; student design. 26:56

OLSON, RAY E

1950-51 Technolog business manger; photo. 31:8:14

1952 St. Pat candidate; note and photo. 32:7:20

OLSON, REUBEN M.
Biog. and photo.

42:3:20

OLSON, ROBERT C

Culture and the engineer (Tau Beta Pi Essays)

24:68

OLSON, WILLIAM.

Illus. for article.

24:33,42

ONAN.

Spotlight on local industry; illus.

46:4:42-44

OPIE, JOSEPH W

Resigns to work in industry.

21:43

OPLAND, RICHARD.

Authors...staff; illus.

21:28,52,74,
98,124,148,
172

Authors of the month; illus.

22:2,28

We present Alvin S. Cutler; photo.

21:167

ORGANIC CHEMISTRY

SEE

CHEMISTRY.

ORIANI, RICHARD.

Named director of Corrosion Center.

61:1:12

ORIENTATION

SEE ALSO

FRESHMEN.

ORIENTATION.

Is the course in engineering orientation
worth while?

12:1:6-7

Senior orientation class added.

26:108,158

Inside I.T.

33:1:15-17,40

ORMES, JONATHAN F.

Nuclear messengers from the galaxy;
illus.

46:1:32-34,55

ORR, TOM.

<u>Hello</u> CQ DE; illus.	33:8:18-19,44
Brief biog. and photo.	33:8:18
<u>Army</u> , <u>Air Force</u> , <u>Navy</u> , <u>Marines?</u> illus.	34:4:14-15,40
<u>Build it yourself</u> ... <u>wheep</u> ; illus.	34:5:30,34

ORTH, STEVE.

Brief biog.

67:4:9, 24

OSBERG, JOHN R

1957 St. Pat candidate;photo.

37:476

OSBORNE, JEFF.

The system revealed (humor).

56:3:14-16

A bicentennial salute to technology

(humor).

56:4:12-15

Minnesota dons a dome (humor); illus.

56:5:22-23

The new breeds; illus.

56:6:22-24

Limited enrollment.

57:1:16-19

What really happened on Foresters'

Day (humor)

57:4:26-28

OSBORNE, JOSEPH E

Indian homecoming (University homecoming) 9:10

OSMUNDSON, NEIL R

Air-train to Templehof; illus.

33:1:10-11, 34

OSTERGREN, LEONARD.

First in A.I.E.E. prize paper contest. 15:181

Brief note re activities. 16:80

Brief note re activities. 17:16

OSTERGREN, ROY.

American Society of Civil Engineering;
photo. of author.

33:4:23

OSTERHUS, JIM

1958 St.Pat candidate; portrait

38:7:25

OTIS, CHARLES K

Joins Agricultural Engineering Dept.

21:43

OTIS, L B

The chemist turns inspector (Chemical
Engineers' spring inspection trip) illus. 9:288-289

OTTINGER, C L

Duluth's novel bridge (lift bridge) illus. 10:218,219

OTTO, JAMES.

From pines to palms; illus.

33:3:14-15

OTTO, JEFF

1971 St. Pat; photos.

51:8:4-5

OTTO, WILLIAM.

Up front; photos.

" " "

" " "

45:1:20

45:2:30

45:3:16

OUROBOROS EAST

see also

PROJECT OUROBOROS.



OUROBOROS EAST.

Article re; illus.

56:6:18-21

OUTBOARD MOTOR

Mechanical Engineering sophomores build
outboard motors. 3:5:20

The Minnesota marine motor. 4:4:31

Mechanicals make outboard motors.
illus. 5:8:5

Greater efficiency in new Gopher
rowboat motor. 6:222

The Gopher rowboat motor. illus. 9:184

OUTSTANDING ACHIEVEMENT AWARDS

University awards I.T. alumni Earl E. Bakken and
Richard D. Mollison.

62:3:22

OUTSTANDING I.T. TEACHER AWARD.

I.T. Board to accept nominations for first annual award.

57:5:5

Abraham Berman named in 1977: article and ports.

57:6:6-7

Kevin Teichman given 1980 award.

S2:1980:8

OVEREND, JOHN.

Biog. and photo.

45:1:20

OVERLY, JAMES.

Brain teasers.

45:2:40

OWEN, JINNY.

Brief biog. and photo.

27:6

Women in engineering;

27:11

Reconnaissance in science; photos.

27:16-17, 38;

62-63, 102-

103

On the job with I.T. alumni.

29:202, 236, 286,

320

OWENS, LEO E

A publisher and an engineer (part owner
of St. Paul Dispatch and Pioneer Press)
photo.

8:112-113

Modern newspaper presses installed
by St. Paul paper. illus.

13:104-105,124

OWRE HALL.

Crane on new dentistry building topples.

12:19

Has unusual clinic room.

12:140

Photo.

12:147

P-N SYSTEM

SEE

GRADES.

PABST BREWING COMPANY.

Announces a series of seventeen awards. 24:129

PACIFIC OCEAN.

Charting the waters of the Philippine
Islands; illus.

11:154-155,170

PADRINOS, JAMES V
Markets for oil.

39:4:11,44

PAINT.

Paint, solid or liquid.

Paint.

14:182-183

28:182-183, 204

PAINTER, WILLIAM H

1929 Electrical Party. illus.

9:218-219

PAKOY, KATHY.

<u>What's</u>	<u>new</u>	<u>in</u>	<u>science</u>	<u>and</u>	<u>industry</u>	; illus.	48:2:34-35, 42
"	"	"	"	"	"	"	48:3:38-39
"	"	"	"	"	"	"	48:4:26-27
"	"	"	"	"	"	"	48:5:48-49
"	"	"	"	"	"	"	48:6:32-33
"	"	"	"	"	"	"	48:7:21-22
"	"	"	"	"	"	"	48:8:22,37

PALMER, BEN W

Writes manual of Minnesota law.

10:26

Biog; photo.

19:122

Beware of curbstone law; illus.

19:125-126

PALMER, HERALD K

Let your handbook and your conscience be
your guide; illus.

20:129

PALMERSON, DENNIS.

Talking is easier: re Engineer's Club. 47:4:56

PALOMAR OBSERVATORY

SEE

MOUNT PALOMAR.

PAN-AMERICAN HIGHWAY.

The road south; illus.

27:168-169,196

PANAMA CANAL.

Reminiscences of the Panama Canal;
illus.

11:121-123,138

PAPER.

The story of newsprint paper; illus.

4:5:9-10,28-
30

The history of paper making.

9:220-221,238

Can you supply it? A substitute for
paper; illus.

24:66,70

PARKING.

Editorial.	9:13
Parking is the problem at hand; illus.	21:31
Brief note and photo re parking problems.	27:28
Cartoons.	29:193
Parking lot parasites (cartoons)	30:2:16-17
Log poll...too many cars?	31:4:19
Editorial re parking ramp at Washington and Union.	36:428
Catch as catch can; satire on campus parking problem.	49:2:28-29
Elimination of river flats; ed.	57:1:4

PAQUIN, SAM.

Biog.

Engineers are not different. Part 1.

20:50

20:65-66

PARACHUTE CLUB

SEE

MINNESOTA PARACHUTE CLUB

PARCEL, JOHN IRA.

Co-author of Indeterminate structures
with Alfred Maney. 5:4:18

Publishes Indeterminate structures. 6:293

Faculty sketch; photo. 7:117

Taking leave of absence to consult
for National Toll Bridge Co., St. Louis,
Mo. 8:278

Consulting engineer on the 7th Street
Trafficway in Kansas City. 14:45

PARHAM, WILLIAM E

Photo.

31:5:19

Pries into organic molecules.

38:8:37

PARIS.

Something about Paris; illus.

6:214-215,236

PARK, JOHN H.

Biog. and photo.

47:3:10

Article re his voice compressor; photo.53:3:10,14

PARKER, DUANE.

Foundry: a basic industry; illus.

32:7:21-23

PARKER, LEONARD.

Biog. and photo.

47:3:10

PARKER, WALTER H

25 years in mining; illus.

25:30

PARKHILL, ROGER.

Dr. Piccard's flight with multiple
balloons; illus.

Aeronotes.

18:29-30

18:66-67

PARKS, M E

The development of aerial surveying.
illus.

11:182-183,196

PARRETT, A N

Report on inspection trip of chemical
engineers, Sept. 1920.

1:5:15-16

PARTICLE MEASUREMENT.

Now they can be measured in microns;
illus.

22:72

PASTOR, JOAN

1957 E-Day Queen; photo.

37:602,606-
607,612

PASTORE, ARTHUR R

Tunnel in the sky.

34:1:42,52

PATENTS.

Patents and the engineers; illus.	6:37,56
Patent office possibilities.	9:109
Engineers as patent attorneys.	9:230,240
How to get a patent.	10:190,196,210
Prof. Springer and patents.	10:289
Protection by patents; illus.	20:186-187

PATTERSON, JIM

Porcelain enameling; illus.

Brief biog and photo.

36:280-283, 314

36:280

PAUL A. CARTWRIGHT/IT ALUMNI SOCIETY AWARD FOR OUTSTANDING SERVICE

First awarded to Scott Dacko; acceptance speech;
photo.

65:1:35

PAUL, FREDERICK T

Elected pres. of the Twin City Chapter
of A.A.E.; photo.

1:7:25

Brief note re activities.

3:3:14

Biog. and photo.

28:72

PAULSON, DON.

Orphans; the short life of dirigible
transportation; illus.

35:8:16-18

PAULUS, HAROLD J.

Air pollution and allergic diseases. 50:3:26-29.

PAURUS, NORMAN W

St. Pat candidate, 1959; photo & note. 39:7:26

PAVEMENT

SEE ALSO

HIGHWAYS.

PAVEMENT.

Types of highway pavements; illus.	2:6:13-14
Use of marl for state roads; illus.	3:7:9-10
An experimental pavement; illus.	6:40-41,62
Observations on test pavement; illus.	7:265-266
Mines Station test cast iron pavement.	15:21
University tests new iron paving.	15:107
University tests concrete pavement.	16:38
Faster yet safer highways for the future: cast iron pavement.	16:74-75
"Tuned" pavement: re cast iron pave- ment.	17:106
Cast iron pavement; illus.	19:134-135

PAYMAR, EUGENE

Boolean algebra.

41:1:20-21,34

PAYNTER, LORNE.

- Brief biog. and photo. 26:132
- Radar takes its place as electronic seeing-eye; illus. 26:140-141,160
- Brief biog. and photo. 27:6
- Brief biog. and photo. 28:304
- Don't pass the buck; editorial. 29:46
- Is I.T. a trade school? editorial. 29:172
- What are we here for? editorial. 29:214
- A declaration of interdependence; ed. 29:258
- Scientists; creators or destroyers; ed. 29:350

PEACE.

Peace on earth? an editorial.

21:55

After victory...what price peace?

illus.

24:253,264

PEACE CORPS.

Offers many challenges to I.T. graduates; photos. 70:4:19-21

PEARSON, GEORGE.

The crooning cowboys; the Orpheum summer
circuit. illus.

6:114,128

PEARSON, IVAR.

Submits winning paper in A.I.E.E.
contest.

14:132

Brief note re activities.

16:176

PEARSON, MARJORIE.

This month.

23:220

Brief biog. and photo.

27:129

The war against bacteria; illus.

28:92-94,108

OTS; Office of Technical Services;

illus.

28:100-101

Awarded Tau Beta Pi woman's badge.

28:150

Brief biog. and photo.

28:172

Our daily bread; illus.

28:180-181,206

PECK, A H

You can't beat 'em (slot machines)
illus.

13:74-75

PECK, ARTHUR.

KSTP's mobile short wave unit; illus.

17:53-55

PECKHAM, HAROLD E

What others do (Engineers' Days at other colleges)

2:5:7,22

St. Pat's Day recommendations.

3:4:5

PEDERSEN, RICHARD A.

SOCIETY SHORTS.

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40:6:20-21

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40:7:18, 39

"

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40:8:24, 28, 30

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41:1:32-33, 36

"

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41:2:30-31, 38

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41:3:26-27, 44

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41:4:36

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41:5:30-31, 42

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41:6:28-29, 38

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41:7:24-25

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41:8:16-17

 (Continued on next card)

PEDERSEN, RICHARD A.

Brain teasers.

" "

" "

" "

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" "

(CARD 2)

42:1:40

42:2:48

42:3:36

42:4:44

42:5:44

42:8:36

PEDERSEN, RICHARD R

Student activities; illus. 13:232-236

Chemical engineering fulfills a
gnawing need in modern industry. illus. 14:32-33

From long ago to now, a brief sketch of
the development of the College. illus. 14:53-55,72

\$18,000,000 sewage disposal program
undertaken by Twin Cities. illus. 14:123-125

Brief note re activities. 17:138

PEDERSEN, ROBERT D

A modern house that makes sense.

36:524-529

PEIK, W E

Biog. and photo.

24:116

Burning the midnight oil; learning
leans forward; illus.

24:121-123

PEITSO, EDWARD.

From the Archives of de olde log.

" " " " " "
" " " " " "
" " " " " "
" " " " " "

43:2:40-41
43:3:32-33
43:4:51
43:5:46
43:6:45

PELLEGRINO, FRANK.

On Technolog Board; photo.

15:125

PELLETIER, GREG.

Photo.

54:7:9

PEMBLE, ROSE.

Brief biog. and photo.

26:264

PENDERGAST, ROBERT E.

Brief biog.

51:4:12

Engineering geology aspects:
Minneapolis-St. Paul Metropolitan
area.

51:4:12-13,17-18

PENDERGAST, W

The Technologist cross word puzzle.

5:5:23

PENICILLIN.

The miracle drug penicillin; illus.

24:247-249

PENN, JIM.

American commercial jets; illus.

33:5:14-15

Brief biog. and photo.

33:5:14

PENNSYLVANIA RAILROAD.

Development of electric traction on the
Pennsylvania; illus.

11:33-35,50

PEPIN, ROBERT.

Lunar sampling program.

49:4:36-37,43

Article re his research on the
University's moon rock; illus.

50:1:22-23

Photo.

50:1:22

Article re his research on moon
rocks.

62:3:17

Research on meteorite, possibly of
Mars origination, described.

63:5:5

PERIA, W T

What's electirical engineering
at the University of Minnesota?

51:1:22-23

PERIODIC TABLE OF THE ELEMENTS.

Students devise a novel periodic classification of the elements. illus.

12:88-89

PERIODICALS.

Our source books: editorial.

17:60

PERKETT, PATRICK.

Three cheers.

54:5:21-22

PERLOW, GILBERT.

To join Physics Dept.

21:22

PERMAFROST.

Reconnaissance in science: research on permafrost
being done under Miles Kersten; illus. 27:102

Article re research being done in Mech.
Eng. Low Temperature Laboratory; illus. 33:4:17,42
Demon frost. 36:20-21

PERMUTH, NORTON G.

Blow for more go!; illus.

Brief biog.

42:2:18-19

42:2:19

PEROTTI, JOHN.

The installation of an incentive wage plan to
increase production at Minneapolis Honeywell. 11:217

PERRY, SUE

The agricultural revolution; illus. 53:8:12-14

PERSONALITY CHARACTERISTICS

SEE ALSO

STUDENTS. CHARACTERISTICS.

PERSONALITY CHARACTERISTICS.

The shyness of the engineer; editorial.	2:3:14
For ambitious engineers only.	19:5-7
The stereotyped engineer.	30:7:7

PESEK, CYRIL.

On swimming team; photo.

3:6:13

PETERS, HERMAN G

Protection through the use of patents.

30:2:8-9

PETERSEN, AARON.

Gooch looks back.

44:7:12-13,28

PETERSON, ARTHUR P

Wilson Dam at Muscle Shoals. illus.

4:8:5-6

PETERSON, C A
Postoffice lighting. illus.

9:112-113,126

PETERSON, CHARLES E

Sketch; Blarney Castle.

7:232

What ho? Jackson's Hole! illus.

8:106-108,122

Author of 1928 Arab production. photo.

8:208

Old stories of Minneapolis. illus.

8:273

Sketch: A ranger cabin, Jackson Lake,
Wyoming.

10:76

PETERSON, DON.

American Institute of Chemical Engineers;
photo. of author.

33:3:22

PETERSON, DONALD.

Bureaucratically-bound scientist; illus. 43:4:20-22, 34

Brief biog.

43:4:20

PETERSON, DOUGLAS.

Campus life.

Log roll; photos.

28:19,40

28:88

PETERSON, E M
The Engineers' Bookstore.

7:9

PETERSON, G C

Sketch: the world's tallest building.

10:40

Sketch: old Dutch farmhouse.

10:288

PETERSON, HAROLD C

E

Civil camp-a summer on Cass Lake. illus. 5:2:8-10

Senior civils banquet. 5:5:27

Co-ed engineers. pics. 5:8:11

PETERSON, LLOYD.

Fullback on football team; photo.

3:1:15

PETERSON, MELVIN.

Marries.

14:165

PETERSON, NANCY LOU.

1951 E Day queen; brief biog. and photo. 31:8:16

Photo.

32:6:44

PETERSON, PERRY.

Automatic sychronizing (electricity)
illus.

13:12-13

PETERSON, ROGER.

There's more to mass transit than
mass: an answer to the 7:45 squeeze
on I-94; illus.

1st ^Whole Earth Conference.

52:3:14-15,18-19

53:3:21-23

PETERSON, W

GARY

1956 St. Pat candidate; brief biog and
photo.

36:482

PETERSON, WALTER.

Harvesting wheat five minutes per bushel
by machinery; illus.

16:170-171

PETERSON, WARREN.

Brief biog.

New engineering building; illus.

28:172

28:176-179,198

PETRI, MARION.

Who says we can't get jobs? (lists those
who got jobs in interior decorating)

10:8:252-253

PETROLEUM.

- | | |
|---|----------------|
| Petroleum engineering; illus. | 8:5,20 |
| Electrical discharges for petroleum production; illus. | 8:74,96 |
| Further developments in the production of synthetic petroleum. | 9:114,124 |
| Conservation of our oil resources. | 11:201,224 |
| Prospecting for oil with a seismograph. | 13:165,176 |
| Its development, its future, black gold, the life blood of industry; illus. | 21:78-80 |
| Oil pipe lines; illus. | 22:32-34,40 |
| John Ballard's research on crude oil described; illus. | 27:156 |
| Petroleum engineering; ● illus. | 28:184-186,200 |

PETSCHAUER, RICHARD J

Printed circuits; illus.

31:3:12-13,42

PFENDER, EMIL.

Receives Humboldt Award.

Biography; ports.

59:2:7

W1:1980:18-20

PFLEIDER, EUGENE P

What happens to the rock; re drilling
research; photo.

Biog. and photo.

35:8:21
43:8:9

"
PHALANX.

First formal initiation held; history;
officers listed.

11:131

PHARMACOLOGY DEPT.

Brief article re fluke study; photo.

28:234

PHELPS, BOYD.

Conducts experiments with high frequency
currents; illus.

8:115

PHI LAMBDA UPSILON.

H.G. Swann delivers 3rd public lecture.	1:7:25
New members listed.	7:269
New members listed.	8:279
Lists new members.	9:148
Lists new members.	9:291
Prize awarded to Donald C. Gernes.	9:291
New members listed; prize winner: Forton A. Christoffer.	10:297
Prize awarded to Archie Japs, new mem- bers listed.	11:242
Brief note re activities.	12:68
Initiates listed.	12:146
Initiates listed for prize awarded to William	1931-32; E. Lundquist. 12:210

(CONTINUED ON NEXT CARD)

PHI LAMBDA UPSILON.

(CARD 2)

Fall, 1932 election results announced.	13:54
Annual smoker held; 1932 fall initiates listed.	13:86
Spring 1933 initiates listed, award presented to David C. Grahame.	13:244
Initiates listed; prize awarded to David C. Grahame.	13:255
Brief note re activities.	14:45
Prize awarded to Edward Marshall.	14:177
Fall initiates listed.	15:53
Officers listed.	16:65
Initiation held.	16:100
Initiation banquet held.	17:141

(CONTINUED ON NEXT CARD)

PHI LAMBDA UPSILON.

(CARD 3)

Initiates 12; listed retiring officers.	17:203
Initiates listed.	18:108
Initiation held.	19:92
Initiates listed.	19:207, 209
Initiates listed.	20:67
New actives, 1945, listed.	26:108
Initiates listed.	28:124

PHILIPPINE ISLANDS.

Charting the waters of the Philippine
Islands; illus.

11:154-155,170

PHILIPS, PAULA

1959 Miss Technolog.

39:8:18,31

PHILLIPPS, BECKY.

Introducing the Impact Studies Lab;
illus.

50:8:18-19

The changing of the guard.

52:1:19,31

UNITE; illus.

52:2:21-22

PHILLIPS, C A

Fitting jobs to personalities.

18:138-140

PHILLIPS, MELBA.

Brief biog. and photo.

22:140

You don't have to be an Einstein to understand relativity; illus.

22:148-149

PHILOSOPHY.

Philosophy and the engineer; illus.

28:311-312, 354

Determinism or free-will.

29:232-233, 240

Scientists; creators or destroyers?

29:350

PHOENIX.

New technical college members listed.	11:242
New technical college members listed.	12:210
New technical college members listed.	13:255
New technical college members listed.	14:173

PHONOGRAPH RECORDS.

Electrical recording words on WAX.

22:56-57,67

PHOTOELECTRICITY.

Very thin films of rubidium; illus.

9:141,170

Photo-cells on the job; illus.

20:60-61

PHOTOGRAPHY

SEE ALSO

MOTION PICTURES.



PHOTOGRAPHY.

Photography; application to industry.	1:2:10-12
Photographs transmitted on beam of light; illus.	10:56
Development of aerial surveying; illus.	11:182-183, 196
Photography as a hobby; illus.	15:164-167
Camera records micromotions (time-motion studies.)	17:77-79
Iso-topics; new color film.	17:134
Aerial mapping of farm land; illus.	18:5-6
You can do it with your camera; illus.	18:83-85
Dull gray bows out to color photography; illus.	21:106-107
Sky eye; illus.	21:158-159

(CONTINUED ON NEXT CARD)

PHOTOGRAPHY.

(CARD 2)

- | | |
|--|------------|
| Improving mechanical sight; illus. | 22:122-124 |
| Engineering with high speed flash; illus. | 22:176-177 |
| Frozen! with high speed photography;
illus. | 25:73-75 |
| Lens coats; illus. | 26:278 |
| Capturing color on film; illus. | 28:96,97 |
| Sun-flash photos; illus. | 29:8-9,34 |

Photons

see

Roving Photons.



PHOTORADIO.

Pictures by radio-another seventh
wonder; illus.

7:106-107,128

PHOTOSYNTHESIS.

Famous scientists are harnessing sun
by experimental techniques; re study of
photosynthetic processes; illus.

24:127,132

PHYSICAL CHEMISTRY DEPT.

Researches at Minnesota: water gas from
lignite; hydrogen-bromine reaction.

13:202-203

Brief article re chlorophyl research;
photo.

28:234

PHYSICAL EDUCATION FOR MEN RESEARCH LABORATORY.

Introducing Physical Education Research
Lab; illus.

49:3:18-19

PHYSICAL ELECTRONICS LABORATORY

Navy sponsors E.E. research.

38:5:56

PHYSICS.

Dr. Sutton's students have fun with physics; illus.

22:168-170

World War II and physics; illus.

26:325

The student's place in physics of the future.

28:16

PHYSICS AND ASTRONOMY, SCHOOL OF

SEE

PHYSICS DEPARTMENT.

PHYSICS BUILDING.

Construction to start in spring, 1926.

6:82

Sketch.

7:264

The new physics laboratory; illus.

8:40-42,62

The Physics Building: editorial.

8:121

Move from old to new building started.

8:149

Photo.

21:185

Article reconstruction and additions

made in 1964; illus.

45:1:33-35

Brief description and photo.

45:5:14

PHYSICS DEPT.

Physics and the University of Minnesota. 8:40-42,62
Offers survey course of general principles
of physics. 10:294

Mapping pre-glacial topography, ionization
dry electron impact, measurement of small
direct currents, electrons in sulphur;
illus. 13:203

Research at Minnesota. 13:229

Photo. 14:54

Heavy water experimentation. 15:54

Physics degree now offered. 18:21

Counting sub-stomic particles. 19:180

(CONTINUED ON NEXT CARD)

PHYSICS DEPT.

(CARD 2)

Research: structure of compounds;illus.

22:121

World War II and physics; illus.

26:325

The students' place in the physics of
the future.

28:16

Research at Minn: mass spectrometer;
photo.

28:26

Introducing the Physics Dept., photo.

29:95

Research in physics: photos and brief
notes.

29:110-111

Linac; illus.

36:266-275

Helium liquefier; illus.

36:354-359

Balloons for the I.G.Y. (cosmic ray
research); illus.

38:3:20-22

● (continued next card)

PHYSICS DEPT.

(Card 3)

Engineers of science.

39:2:16,51

Dumping profile: re project to study the van Allen radiation belts.

42:4:6-7

Physics at the Institute of Technology.

42:6:34

Physics experiments to ride satellite; illus.

43:6:8-11

Operation solariscope: research on the solar corona and zodiacal light described; illus.

44:3:18-19,32

Nuclear messengers from the galaxy; re cosmic ray research; illus.

46:1:32-34,55

An experiment on A.T.S.; illus.

46:4:36-39,62

What are physics and astronomy at Minnesota?

51:1:31

(Continued on next card)

PHYSICS DEPARTMENT.

- A new improved freshman physics lab. 55:2:25-27
- Article re new organization for
physics majors: Roving Photons. 55:5:6
- Colloquium schedule, winter quarter,
1978. 58:3:24
- Seminar schedule, Winter, 1979. 59:4:9
- Group led by Edward P. Ney to view
solar eclipse. 59:4:10
- Description of trip to view solar
eclipse; illus. 59:6:18-19

PHYSICS LABORATORY

SEE

PHYSICS BUILDING.



PHYSICS DEPARTMENT.

(CARD 5)

Testing Einstein's Unified Theory in
Tower-Soudan mine; illus.

F2:1979:7,

Open lecture series to be held;
speakers and topics listed.

S2:1980:18-20,25

63:2:7

Colloquium speakers and topics listed. 63:4:5

The Unified Radio and Plasma Wave Experiment,
part of the International Solar Polar Mission,
described; illus.

63:5:18-21,26

U of MN astronomers using Cray-2 supercomputer
to simulate astrophysical situations; illus;
photos.

67:3:6-7, 11

PHYSICS DEPARTMENT.

(Card 6)

List of departmental faculty and their research interests.

67:3:25-26

PI DELTA EPSILON.

New members from Tech. college listed.	7:269
New members from Tech. College listed.	8:279
New members from Tech. College listed.	9:291

PI DELTA NU.

Group photo.

22:215

PI PHI CHI (INTERPROFESSIONAL FRATERNITY COUNCIL)

Description of organization.

30:1:20

PI TAU PI SIGMA.
Initiates listed.
Activities.

10:106

11:130

PI TAU SIGMA.

Installed, members listed.	2:8:22
Elections held.	3:2:27
Initiation held.	3:3:27
Brief note re activities.	3:8:13
Initiates listed.	3:8:13
Initiates listed.	5:4:19
New members listed.	6:80
Elect officers.	6:152
Inter-honorary banquet held, initiates listed.	6:257
<u>Condenser</u> , nat'l publication to be edited here.	6:292

(CONTINUED ON NEXT CARD)

PI TAU SIGMA.

(CARD 2)

Awards prize to Tanner.

7:47

Initiates listed.

7:82

New members listed.

7:269

Initiates listed.

8:76

Initiate men.

8:248

New members listed.

8:279

Announces election results.

9:50

Elect members.

9:117

New members listed.

9:291

Nat'l convention to be held in Cincinnati.

10:54

Initiates listed.

10:104

New members listed.

10:297

 (CONTINUED ON NEXT CARD)

PI TAU SIGMA.

(CARD 3)

Note re activities. 11:130

New members listed. 11:242

Prize awarded to D.E. Leslie. 11:242

Initiates Prof. Du Priest. 12:96

Tri-Honorary Banquet held. 12:192

New initiates listed; prize awarded to
E. Hartzman. 12:210

Election results for 1932-33 announced. 13:22

Note re activities. 13:54

1932 fall initiation held. 13:86

Quad honorary banquet held; new initiates
listed. 13:244

Initiates listed; prize awarded to
Harold W. Shaw. 13:255

(CONTINUED ON NEXT CARD)

PI TAU SIGMA.	(CARD 4)
History, initiates listed.	14:174
1934 prizes awarded to Kay Jue, Franklin Vobeyda, and Gladys Wallene.	14:177
Fall initiation held.	15:53
Adds new members, note re activities.	16:61
Officers listed.	16:65
Group photo.	16:138
Initiates members.	17:114
In charge of M.E. open house for E Day.	17:140
Group photo.	17:174
Lists new members.	17:202
Five from Minn. branch attend nat'l conv.	18:64
Initiates listed.	18:108
Group photo.	18:189

● (CONTINUED ON NEXT CARD)

PI TAU SIGMA.	(CARD 5)
Initiation held.	19:92
Group photo.	19:194
Initiates listed.	19:209-210
Initiation for new members held.	20:67
Group photo, 1940.	20:198
Tri-honorary banquet held; new initiates listed.	20:214
Group photo, 1941.	21:191
Group photo, 1942.	22:215
Institute's honorary societies.	23:171,178
Tri-honorary banquet held; initiation held.	23:174

(CONTINUED ON NEXT CARD)

PI TAU SIGMA.

(CARD 6)

Brief note re activities.

26:68,198,234

Group photo, 1946.

26:346

Initiation held.

27:122

Note re activities.

29:66

Activities; rating survey held.

31:6:19

Note re activities.

31:7:34

Officers, initiates listed; note re activities.

41:3:44,52

Note re organization and 1961-62 officers listed.

42:1:25

Note re activities.

42:2:31

Initiates listed.

42:3:30

(Continued on next card)

PI TAU SIGMA.

(CARD 7)

Note re activities.

42:5:28

" " "

42:6:31

" " " ; new iniates

listed.

42:8:19

Note re organization; 1962 list of
officers.

43:1:37

Note re activities.

43:6:37

Brief note re activities.

43:3:42

Initiation held; note re activities

43:5:44

Brief description; 1963 officers
listed.

44:1:33

PICCARD, JEAN.

Plans new stratosphere flight.	16:154
<u>Why do we go to the stratosphere?</u> illus.	16:165-167
Stratospheric balloon to contain 3 new clockwork mechanisms.	17:19
First sounding now ascension.	17:111
Flight with multiple balloons; illus.	18:29-30
<u>Why we explore the stratosphere.</u>	18:31
Photo.	18:31
Speaks at national meeting of I.Ae.S.	18:118
Attends conference on air transportation at Ann Arbor.	20:43
Skyward-15 miles (radio-meteorographs) illus.	20:81

(CONTINUED ON NEXT CARD)

PICCARD, JEAN.

(CARD 2)

Biog. and photo.

20:119

Biog. and photo.

25:180

Article re his life and research; illus. 32:8:13-15,42

PICCARD, JEANETTE.

Dr. Piccard's flight with multiple
balloons; illus.

18:29-30

Dr. Jean Piccard; illus.

32:8:13-15,42

PICKERING, HAYDEN.

1940 St. Pat and his queen; photo.

Brief note re activities.

20:191

22:75

PICKETT, THEODORE.

Brief biog. and photo.

Miracle in stone; illus.

The noose in the news.

27:164

27:210-212

27:118,158,194

274

PIERCE, BURCHELL.

This noisy universe; illus.

Brief biog. and photo.

33:4:14-16

33:4:16

PIERCE, H J

Constructing the new Northwestern Bell
Telephone building. illus.

11:100-101,110

PIETRS, TOM.

1967 St. Pat; photo.

47:8:9

PIKE, E PHILIP.
Brief biog. and photo.

PIKE, FREDERICK P

Joins staff of Chemical Engineering.

21:43

PILGREN, J

Keep it clean (swimming pool sanitation) 37:574-575

PILLSBURY, CHARLES L

Service, the soul of business.

1:1:5-7

PILLSBURY COMPANY.

Spotlight on local industry; photo.

45:6:36-37

PILLSBURY HALL.

Brief description and photo.

Photo.

45:5:13

67:2:33

PILLSTROM, C

DALE.

Civils survey life at summer camp; illus. 23:42-43

PINKE, KURT G 0

Lens coats; illus.

26:278

PIONEER ENGINEERING WORKS.

Mighty machines pave highways to
victory; photo.

24:219,232

PIONEER HALL.

Pioneering in Pioneer Hall; illus.
Photo.

12:31,44

27:127

PIPES.

The why and how of welded piping construction; illus.

12:81-85

Streamlined piping.

15:179

PIRET, EDGAR.

Returns after leave of absence.

26:158

Photo.

27:16-17, 38

Research with sewage disposal described.

19:108

PIRRO, ROBERT IAN.

Wanted: engineer with five-year degree...

52:7:18-19

Growing up is the crushing at real life alternatives.

52:8:5

Fake! illus.

52:8:32-33

Artificial intelligence.

53:4:10-11

Seminar.

53:8:8,20

The microwave oven.

54:6:15-17

The current job outlook for I.T. students.

54:7:12-13

The highest density of life anywhere: Anartic pack ice; illus.

54:7:14-17

(CONTINUED ON NEXT CARD)

PIRRO, ROBERT IAN.

(CARD 2)

Working towards becoming an engineer;
illus.

54:8:8-9

The microwave oven.

54:8:10-12

What is the future of I.T. undergraduate
education?

54:8:14-15

What is the relationship between the
government and the scientist?

54:8:16-17

What are the ethics of engineering?

54:8:18-19

Ouroboros; illus.

55:3:6-9

(CONTINUED ON NEXT CARD)

PIRRO, ROBERT IAN.

(CARD 3)

The current job outlook for I.T. students.

55:5:8-9

Twin Cities Radio.

55:6:22-32

Financial aid.

56:1:8-10

Rating games.

56:2:19-21

CRAY-1; giant in the making?

56:4:19

PIRY, MARCEL.

Working with B.J. Robertson on gas
engines.

21:43

PITCHER, ROBERT.

The evolution of the eraser (humor); illus. 19:84

PITTELKOW, HAL B

Cloud formations, the why and wherefore. 10:256-257

Realization of a dream of an air service
to the Northwest. illus. 13:143-145,
159-160

Brief note re activities. 16:176

PITTS, SHIRLEY.

Authors...and stuff; illus.

25:136,166,196,
230,260

Brief biog. and photo.

25:196

Keeping logged; illus.

26:4,52,92,132,
176,218,264,
312

PITTSBURG TEST.

Results of the Pittsburg test.

4:6:13,30

PLACEMENT

SEE ALSO

CAREER OPPORTUNITIES

PLACEMENT.

Getting a position.	2:8:7,15
Alumni Employment Committee formed.	3:3:11
How about the successes.	3:4:16
Senior mechanical employment bureau planned.	5:4:18-19
Numerous representatives interview graduating engineers.	6:188
Personnel men interview electrical seniors.	8:98
Employment bureau for engineers; ed.	8:146
Kodak Co. interviews chemists.	8:149
Students seek jobs.	9:270
The Alumni Service editorial.	Fund; 10:258-259

(CONTINUED ON NEXT CARD)

PLACEMENT.

(CARD 2)

Chemical engineers obtain positions.

10:295

Situation confronting 1933 engineering grad.; illus.

13:101-103,122

Job outlook not bright.

15:76

Employment improves; figures for classes of 1934 and 1935.

16:34

Fitting jobs to personalities.

18:138-140

For ambitious engineers only.

19:5-7

Employment conference.

19:116

A recent graduate tells what to expect; illus.

20:156-157

Informative meetings for seniors set up.

21:114

Supply and demand in tech. manpower.

27:54,64

(CONTINUED ON NEXT CARD)

PLACEMENT.

(CARD 3)

Finding your future; illus.	27:302-303, 314
Your chances of employment; illus.	28:54-55
The Dean's page: placement.	30:5:15
The Dean's page: shortage of engineers.	30:8:17
Help wanted: engineers.	31:2:13
Helluva shortage of engineers.	32:1:17, 36
Opportunity knock for engineers.	33:5:18, 50
Too many engineers? No not enough!	42:2:5
Demand for science and engineering grads grows.	42:2:36
The engineering employment interview.	42:3:10-11

(Continued on next card)

PLACEMENT.

(CARD 4)

Surprises in green-scented packages; editorial.	42:5:5
Get a job; illus.	43:4:14-16
Inside industry; illus.	43:6:20-22
From campus to job to job.	47:3:12-15
The engineering employment interview	47:4:11-13
Job opportunities?	51:1:8
Minnesota jobs.	51:2:12
Mission impossible?	51:3:10
The Engineering in Training Examination.	51:5:8
I.T. Job outlook.	53:7:29

(CONTINUED ON NEXT CARD)

PLACEMENT.

(CARD 5)

The current job outlook for I.T. students.	54:7:12-13
The current job outlook for I.T. students.	55:5:8-9
Article re opportunities for mineral engineers.	55:5:21-23
Article re placement.	55:6:9-11
I.T. job outlook.	56:4:16-17
Jobs 76.	57:1:26-28
Does the PCA affect the I.T. job outlook; illus.	57:3:13
Article re; list of fall interviews.	58:1:14-16

(Cont. on next card)

PLACEMENT.

(CARD 6)

Job prospects improving.

58:5:6

Career Fair to be held Feb. 23, 1979.

59:4:7

Demand for engineers high.

59:7:6-7

The Graduates of I.T.: what awaits them.

62:2:17-19

Interviewing techniques described.

64:2:21-23

Benefits of working for large corporations
discussed.

64:3:15,24

Benefits of working for a small company
discussed.

64:4:19-21

PLACEMENT OFFICE.

Behind the wooden door.

52:7:24-25

PLACEMENT SERVICE.

Placement figures, 1934-1937.	18:42
Job! jobs! jobs! illus.	18:56-59
Employment shows slight lag.	19:38,40
Sharpen your ax.	19:85
Mr. graduating senior, have you got a job yet?	19:173-174
Now is the time to seek that future job; photos.	20:34-35
Job meeting planned.	20:92
More than forty companies.	20:105
Job outlook improves.	20:171
Placement service has big year.	20:214

(CONTINUED ON NEXT CARD)

PLACEMENT SERVICE.

(CARD 2)

That future job-it's up to you.	21:40,42
Jobs for engineer's; 1941 placement hits new high; illus.	22:14
Senior placement high.	22:128
Seniors urged to get in data sheets.	23:22
Industry seeks engineers.	23:52
Has record of 100% placement of seniors for March 1943.	23:206
Announcement.	24:14
10 out of 70 placed in jobs in industry.	24:266
The engineer's helper.	25:141
Here's to the sagacious senior; illus.	30:3:26
Here's to the sagacious senior;illus.	30:5:21

(Continued on next card)

PLACEMENT SERVICE.

Job-hunting the easy way.

Article re service.

Article re placement.

Re services; recruiting schedule.

Summer jobs.

Services described.

(CARD 3)

41:4:18-19,28

42:3:6-7

55:6:9-11

59:1:12-13

59:7:6

64:1:25-27

PLASTICS.

- Paint, solid or liquid? 14:182-183
Glass substitutes. 17:199
Plastics: the application and production
of a miraculous material; illus. 20:30-32
An easier life with plastics; illus. 23:108-109
Plastics: a substitute for elephant's
tusks; illus. 24:218, 228
The "chemical Forging" of plastics;
illus. 26:148, 164

PLATING.

Chromium plating; illus.

9:76,92,100

PLATT, ROBERT.

Cover design.

22:1,8

Illus. for articles.

22:6-8,118-119,

171,180,198-

199,210

Brief note re his illustrations.

22:232

Illus. for articles.

23:27,68,82,

104,130,134,

135,139,171,

178

Brief biog. and photo.

23:32

Brief biog. and photo.

23:164

(CONTINUED ON NEXT CARD)

PLATT, ROBERT.

Illus. for article.

Brief biog. and photo.

Brief biog. and sketch.

Illus. for article.

Modern architecture and the house of
today; illus.

Brief biog. and photo.

Photo.

(CARD 2)

24:10, 37, 111,
140, 154, 169,
174, 201, 238,
256, 275, 276,
277, 297

25:196

25:271

26:70, 88, 109,
128, 154

26:55, 72

26:150

26:333

"PLEIADES"

SEE

PICCARD, JEAN.

PLOWMAN, GOERGE T

Biog., photo.

11:42

Notes on Plowman's lecture on engraving.

11:135,140

Photo.

11:135

Obituary; photo.

12:166-167

PLUMB BOB

SEE ALSO

BLARNEY STONE.

PLUMB BOB.

Editorial re establishment. 6:260

Description of society, charter members listed. 6:262

New members listed. 7:269

New members listed. 8:279, 291, 265

New members listed. 10:297

New members listed. 11:242

New members listed. 12:210

New members listed. 13:255

New members listed. 14:173

Group photo. 16:146

Initiates listed. 17:171

Group photo. 17:173

Group photo. 18:187

(CONTINUED ON NEXT CARD)

PLUMB BOB.	(CARD 2)
Group photo.	19:193
Initiates listed.	19:207
Group photo, 1940.	20:199
Group photo, 1941.	21:190
Group photo, 1942.	22:214
Guard rock (Blarney Stone)	23:146
Institute's honorary societies.	23:171
Members get Blarney Stone out of its hiding place; photo.	24:190
To be revived.	25:290
Note and photo.	27:271
Description of organization.	30:1:20

● (CONTINUED ON NEXT CARD)

PLUMB BOB.

(CARD 3)

Activities on Forester's Day.

31:7:18

Photos of members.

31:8:20

Photo with Blarney Stone.

41:8:10-11

Note re organization.

43:1:37

Group photo.

43:8:17

Photo with Blarney Stone.

43:8:19

Brief description.

44:1:33

Photo of members.

Editorial re joke printed in 1977

50:1:45

Blarney's Castle.

57:6:3

Offers rebate to entries in E-Week

Car Race.

58:3:5

Continued on next card.

PLUMB BOB

(CARD 4)

Note re Technology Fair.

62:4:20

Benefits of joining.

67:6:11

History, description of society; photos.

68:6:20-21

Group photo, 1991.

71:5:28

History of the Blarney Stone, I.T. Week and Plumb
Bob; photos.

72:6:20-22

PLUNKETT, ROBERT.

The professional master's degree.

50:6:31-33

Article re his research in the
Impact Studios Lab; photos.

50:8:18-19

Interviewed re value of masters
degrees.

52:7:18-19

POBJOY AIRPLANE MOTOR.

Light English airplane motor is purchased for University.

Photo.

14:90

14:160b

POCOCK, MERTON A

The appraisal and engineering; illus.

Photo.

4:3:9-11,29

4:3:9

POEHLER, H

A

The mechanism of death by electric shock;
illus.

25:200,218

POISSON'S RATIO..

The determination of Poisson's ration;
illus.

5:8:10

POLARISCOPES.

Polariscope pictures stresses in new
Mechanical Engineering Laboratory; illus. 16:3-5
Stresses seen by polariscope; illus. 17:79

POLARIZATION.

Polarized light; illus.

20:54-56

Polarography

New method of chemical analysis.

19:3:59



POLAROID

SEE

POLARIZATION.

POLIO VACCINE.

Research in Bacteriology: purification of
virus; photo.

28:282

POLISTER, RICHARD.

Brief biog. and photo.

26:312

Behind the scenes; photos.

27:94,140,217,
306

Capturing color on film; illus.

28:96-97

POLITICAL CAMPAIGN, 1972.

The brand new breed.

53:1:16-18

POLITICAL CAMPAIGN OF 1968.

Introducing campaign '68: Paul Newman
and Pat Paulsen.

48:7:25-27,29

POLKINGHORNE, RALPH.

Splinters from the log.

Splinters.

"

"

"

"

"

"

51:1:30

51:2:30

51:3:23

51:4:20

51:5:31

51:6:24

51:7:20

51:8:18

POLLA, DENNIS.

Interview; illus; photos.

69:1:14-17

POLLOCK, JOHN L

Logically speaking.

40:5:10-11,30

POLLUTION

SEE

AIR.
WATER.
SEWAGE.
NOISE.

POLLUTION CONTROL AGENCY.

Editorial re.

57:3:3

Does the PCA affect the I.T. job
outlook? illus.

57:3:13

An interview with the new PCA
director (Sandra Giardebring); ports.

57:3:14-15

POLSON, ALLEN.

Alumni notes, featuring in this issue
Institute graduates in the field of Chemical
Engineering; photo. 21:137

Alumni notes, featuring in this issue
Institute graduates in the field of Civil
Engineering; photo. 21:160

POM-POM GIRLS.

Brief note and photos.

46:2:42-45

Interview of pom-pom girls; photos.

46:3:8-11

" " " " "

46:4:8-10

POND, FRANK.

On Hockey team; photo.

3:4:14

Wins golf tournament; photo.

4:2:13

PONTO, LEE

Photo; quoted re job outlook for I.T.
graduates.

Photo.

Obituary; photo.

62:2:17-19

64:1:27

66:2:6

POOL, KOESTER.
Photos.

24:96-97

PORTLAND CEMENT

SEE

CEMENT.

POTASSIUM.

K-40, new isotope, discovered by Alfred O.
Nier.

16:60

POTTER, ORRIN W

Heat treating grey cast iron and semi-steel; illus.

6:74-75,94

To give report at Belgium meeting of European Foundrymen's Association.

6:118

Biog.

14:86

Biog. and photo.

24:212

New technique proves seeing is believing (technical drawing); illus.

24:220-221

POUCHER, J
Photo.

C

28:106

POWDER METALLURGY

SEE

METALLURGY.



POWELL, KNOX A

I hereby dub thee--(experiences) illus. 12:128-129.

Photo. 12:128

Industry renewed that apprentice idea.

Why? 12:177,199

POWELL, LOUIS H

Kichimookoman; surveying in the wilds of
northern Canada. illus.

8:174-176,184

Brief note re activites.

12:163

POWELL HALL

Note re carnival; illus.

38:5:61

Carnival ad for 1960; illus.

40:5:53

POWERS, KATHY.

1968 E-Day Queen; photos.

48:8:30-31

PRECKSHOT, GEORGE W

Directs Chem. E. unit operations lab.

32:5:17

PREMACK, JOSHUA.

WCCO takes up short wave transmission;
illus.

17:55

PRENTICE, JOHN H

A sticky business (metal bonding); illus. 36:596-597

Brief biog and photo.

36:596

PRICE, EUGENE.

Determining velocity of fluids by auditory methods; photo. 14:58

100 feet below the campus miles of tunnel carry steam to campus buildings; illus. 14:79-81

Ingenious arrangement of backstage wonderland makes stage shows possible; illus. 14:159-160

Editor of Technolog, 1934-35; photo. 14:172

Engineering difficulties at Antipodes; illus. 15:8-9,22

Wirephoto speeds pictures at 1,700 miles per hour from west coast to Minneapolis; illus. 15:117-119

(Continued on next card)

PRICE, EUGENE.

The editor looks back.

(CARD 2)

15:168

PRICE, RICHARD R

If I were an engineer; illus.

26:99,100,112,
114

PRICHARD, THEODORE.J

Famous etcher at Minnesota: S.C.

Burton; illus.

Brief note re activities.

4:2:8,28-29

23:176

PRICKETT, GORDON O

Dr. Strathmore R.B. Cooke; photo.

38:6:58-59

PRIESTER, GEORGE C

<u>The determination of Poisson's ratio;</u> illus.	5:8:10
<u>Steel slabs for column bases;</u> illus.	9:217
Designs visual strain meter.	11:18,20
Biog. and photo.	25:148
Photo.	27:270
How St. Pat came to Minnesota; re	
Priester's part in setting up E Day; photo.	28:329,340
Biog. and photo.	28:336
1914 St. Pat; photo.	36:180

PRINTING DEPT.

Brief note and photo.

28:107

PRINTING PRESSES.

Modern press used by Minneapolis Tribune;
illus.

5:4:13-14

PRIOR, PAT

1957 E-Day revue producer; photo.

37:615

PRIOR, T

W

Photo.

20:34

Jobs in the rubber industry; illus.

20:87

PROBATION.

The probation rule: letter from Dean
Leland.

10:155,168

Coefficient of completion article re
I.T.'s method of predicting students'
academic standing.

56:1:26-28

Ed. re change to "Honor Point Deficiency"
system.

56:2:5

PRODUCTION CONTROL.

Formulas in industrial management.

6:113,130

Some things the would-be engineer should
know about priorities; illus.

22:36-37

PRODUCTS TESTING

SEE

QUALITY CONTROL.

PROFESSIONAL COLLEGES BOOKSTORE

SEE

ENGINEERS' BOOKSTORE.

PROFESSIONALISM

SEE ALSO

ETHICS

PROFESSIONALISM.

- The Minn. law for the registration of architects,
engineers and land surveyors. 2:4:18,20
- Engineers, consider unionization! illus. 20:12-13
- Engineers, reconsider: unionization has
disadvantages; illus. 20:36-37
- An issue in engineering: professionalism
vs. unionism. 23:14
- Should we license engineers? 23:191
- A future consideration: your professional
status. 24:147
- If I were an engineer. 26:99-100,112
- As we see it: organize now [prof. organiza-
tions] 26:315

● (CONTINUED ON NEXT CARD)

PROFESSIONALISM.

(CARD 2)

Engineers, independence or organization.	27:51
Unions for engineers from our angle.	27:87
Unions and the engineer.	27:304-305, 326
Editorial: unions and professional puppets; illus.	30:3:9
The Deans page: unionization for engi- neers.	31:2:5
Unionization: pro and con.	32:8:16, 50
The professional status of the engineer.	37:2:108
Not all challenges are technical.	37:4:275, 314
Will your first job be professional?	37:5:362-363
Professional engineering.	37:6:445
Professional engineering	37:7:527

(CONTINUED ON NEXT CARD)

PROFESSIONALISM.

(CARD 3)

Guides to success.	38:2:34,80
Professionalism vs. unionism.	38:3:30-31
And ten percent good fellowship.	38:4:42-43
Engineering as I find it.	38:5:28-29
How to become a professional engineer.	38:6:52,57
I.T. is helping the student to develop a professional attitude.	39:2:14-15,46
Career building in engineering.	39:3:14-15,24
Futures.	39:4:30-31,34
Engineers and public affairs.	39:5:20-21
Lucky you! Young engineers.	39:6:18-19
How about you?	39:7:14-15,32
I.T. seniors urged to take registration April 25, 1959.	39:6:42

(Continued on next card)

PROFESSIONALISM.

(Card 4)

The professional engineer.	41:6:18-19, 32
Are you ready? editorial.	42:4:5
How to become a professional.	47:2:12-13
Tunnel vision.	52:6:16-17
Scientific integrity; illus.	54:6:10-13
What are the ethics of engineering?	54:8:18-19
Unionization for engineers.	57:4:20-21
Engineering and Ethics course offered.	66:6:7
Code of Ethics for Engineers reprinted.	66:6:10-12
Professional registration for engineers, pros and cons; illus.	70:4:6-9

PROJECT OUROBOROS

see also

OUROBOROS EAST.



PROJECT OUROBOROS.

Article re; illus.

55:3:6-9

PROJECT TECHNOLOGY POWER.

The Minnesota minority.

51:6:4-6

Engineers: IT takes all kinds.

52:7:26

Goal is to increase, support number of
minorities in I.T.

68:6:19, 24

PROSPECTING

SEE ALSO

MINING.

PROSPECTING.

Prospecting for oil with a seismograph;
illus.

13:165,176-177

PROSZEK, EDWARD L

Etiquette for engineers; photos.

22:200-201

In group photo taken at the Technolog
banquet, 1943.

23:160

Biog. and photo.

24:84

Blues in the nite shift (piped music);
illus.

24:87-88

PROTHERO, KENNETH.

Rating polls (instructors)

29:226,242

PSYCHOLOGY.

The psychology of advertising.

4:6:6,32

On judging men by their faces: re

phrenology.

20:168-169

Research: rat habits being exposed to 70%

0 30% CO₂ atmosphere studies; photo.

28:282

Inside Burton Hall (humor)

35:2:37,42

PUBLIC AFFAIRS, SCHOOL OF

Cooperates with I.T. on setting up
liberal arts background to I.T. curriculum. 53:8:15

PUBLIC SPEAKING

Editorial.

1:7:14

Self expression. editorial.

10:224-225

Speech! editorial.

11:76

Editorial.

14:10

PULP BEATER.

Chemistry School gets pulp beater.

15:105

PURCELL, JOHN.

Earthquakes in Minnesota.

56:6:6-7

A brief look inside science fiction.

57:4:8-9

PYRAMIDS.

Miracle in stone; illus.

27:210-212

PYROMETRY.

Research in the Institute: high speed
pyrometry; illus.

21:81

QUALITY CONTROL.

For precision products testing machines
will provide proved materials; illus.

21:110-111

Industrial x-rays; illus.

23:39-41,56

Quality control; illus.

29:59-60,84

QUANRUD, GERHARD.

Signal Corps invades Fort Sheridan.
illus.

11:73,80

QUARTZ.

Industrial wonder, fused quartz; illus. 25:110,124

Crystal magic; illus. 27:173-175

QUEEN, E-DAY

SEE

ENGINEERS' DAY

QUENEAU, ROLAND B

Conducting novel work in locating leaks in
Springfield, O. waterworks.

6:4:116

QUEST, C F

Research in the Institute: Centrifugal
furnace; illus.

21:105

QUIE, PAUL.

Discusses research in biological warfare.

71:3:13

QUIGLEY, HAROLD S

Biog. and photo.

24:244

After victory..what price peace? illus.

24:253,264

QUINN, URSULLA.

Co-ed engineers. pic.

5:8:11

QUIST, STETTLER.

Machine assembly.

20:14

Photo.

20:14

Brief note re activities.

22:131

ROTC.

First Miners enroll since 1922. 5:3:20

Students enroll in naval reserve aviation
course. 6:117

Engineers are appointed to major ROTC
positions. 8:98

F.A. Christofer heads Cadet Corps; other
appointments listed. 12:38

Military Ball to sell tickets on the
installment plan. 22:46

Know your Army Coast Artillery Corps;
illus. 23:18-19

Fresh water sea puppies; illus. 23:76-77

(CONTINUED ON NEXT CARD)

ROTC.

(CARD 2)

Navy training program.

24:9

Navy men graduate.

26:198

The engineer of ROTC; illus.

28:18

Behind the scenes at the Armory; photos.

28:276-277

I.T.'s participation in the ROTC

programs.

30:3:19

Reserve Officers Training Corps; illus.

33:1:23,54

Army, Air Force, Navy, Marines? illus.

34:4:14-15,40

R.O.T.C. and the I.T. student; illus.

46:4:46-49

RADAR.

Radar takes its place as electronic
seeing-eye; illus.

Searching fingers; illus.

26:140-141,160

27:296-299

RADEMACHER, ROBERT W

Petroleum engineering; illus.

28:184-186,200

RADIANT OVENS

SEE

DIELECTRIC HEATING.

RADIO

SEE ALSO

FM

RADIO.

- Wireless telephony. 2:7:3-4,17
- Students get world series news by
radio in Armory. 3:1:24
- Radio in train operation. 3:4:22
- Moving pictures by radio; illus. 6:10-11,24
- Regulation of radio broadcasting. 6:69,86
- Horizontal waves to eliminate static;
polarized radio light systems; illus. 6:106-107,130
- Pictures by radio; illus. 7:106-107,128
- An efficient high frequency receiver;
illus. 7:145,158
- For the luvva "Mike" (Glen Lake Sanatorium
radio station) 7:206,224

● (CONTINUED ON NEXT CARD)

RADIO.

(CARD 2)

A short wave radio set for airplanes;
illus.

8:39,54

A radio controlled car; illus.

9:250-251

A 50 kilowatt transmitter (WCCO);illus.

13:38-39,62-63

Vertical antenna;illus.

16:168-169

KSTP's mobile short wave unit; illus.

17:53-55

WCCO takes up short wave transmission;
illus.

17:55

Preselective timing device worked on
by E.E. Dept.

19:34-35

That radio controlled car; illus.

19:185

Radio to be revolutionized by frequency
modulation; illus.

20:8-10

● (CONTINUED ON NEXT CARD)

RADIO.

(CARD 3)

Radio-meteorographs; illus.	20:81
New defense course in radio theory.	22:128
Frequency modulation; illus.	27:176-177
CQ ham radio; illus.	28:226-227, 246
Wires and wireless; illus.	29:12-15, 38
Twin Cities Radio	55:6:22-32
Article re ARB rating system; ports.	56:2:19-21

RADIO AMATEUR SOCIETY

SEE

UNIVERSITY RADIO AMATEUR SOCIETY

RADIO AND TELEVISION, DEPT. OF
Article re; illus.

51:4:14-15

RADIO STATION WMMR.

Introducing WMMR campus radio; illus. 49:8:16-17

RADIO TELEPHONY.

Carrier wave telephony; illus.

3:6:10,29

RAILROADS.

Railroad electrification. 1:1:12-13

The electric locomotive is 75 years
old; illus. 2:2:18-19

The Northwestern carries on; illus. 4:4:5,30

Railroads are over-capitalized; illus. 4:7:7,28

Swiss railway electrification. 5:5:16-17

Gasoline and oil-electric transportation. 7:139-141,152

Illinois Central electrifies terminal;
illus. 8:207,224

A long tunnel survey: the Cascade tun-
nel. 10:10-11,20

Gas-electric cars. 9:285

Electrification of passenger terminals;
illus. 10:44-45

(CONTINUED ON NEXT CARD)

RAILROADS.

(CARD 2)

- Unification of railroads; illus. 10:122-123,134
- Development of electric traction on the
Pennsylvania; illus. 11:33-35,50
- The Alaska railroad; illus. 11:206-208,224
- Modern railway signal engineering; a
career; illus. 12:4-5,19
- Traffic problems solved by trackless trolley
coaches; illus. 15:30-31,40
- Twin Cities see steam, diesel driven trains
on fast schedules; illus. 17:99-101
- Train control through visual cab signals;
illus. 18:99-101
- Steam power on the range; illus. 29:180-182

RALEY, FRANK.

Resigns (see ASME)

41:6:29

RANKIN, DEAN W

Engineers' Bookstore pay members nearly
\$17,000; statment of May 31, 1924.

5:3:12

RANKIN, E. S.

How to become a professional
engineer; brief biog. & photo.

38:6:52,57

RANTA, REINO.

Faster yet safer highways for the future:
re cast iron paving used at 15th and Washing-
ton; illus.

16:74-75

RAPOPORT, ANDREW.

Teaching mathematics (humor).

56:5:8-10

RAPSON, RALPH.

New head of School of Architecture;
photo.

Biog. and photo.

Welcomes 1979 delegates to annual
meeting of Alpha Rho Chi; port.

35:1:24-26
43:2:26

59:4:17

RASEY, RAYMOND.

Engineers in athletics: 1926 conference
medal winner. photo.

7:12

RASK, LOUIS G

The electric ship, California. illus.

Photo.

8:276-277

8:276

RAUDENBUSH, ALLAN.

Biog; photo.

19:170

The Aero trip, when seniors go sight
seeing; illus.

19:177

RAUEN, THEODORE J

Amateur radio; illus.

Brief biog. and photo.

30:2:14,30

30:2:14

RAVICH, NORMAN.

Biog. and photo.

25:4

Chemist's black gold petroleum.

25:9,16

Photo.

25:30

RAY, GORDON.

Biog. and photo.

25:4

Purloined prototypes (humor)

25:18

RAYON.

Rayon, a triumph of modern chemical and mechanical engineering now the third most important textile; illus.

9:8-9, 26,
38-39, 52, 56

REBER, BILL

1956 E-Day brawl chairman; photo.

36:543

REBHOLTZ, GEORGE.

Why have the Tech Party?

33:6:21,52

Photo.

33:6:21

Tech Party platform.

33:7:34

Build your own liquor cabinet; illus.

33:8:30

REBMAN, HENRY RICHARD.

Named Electrical Show chairman.

19:68

Photo.

19:161

Brief note re activities.

20:166

RECTOR, JAMES W

Are you troubled by registration; illus. 28:58-60

As we see it: is divorce the answer to
research vs. education? 28:217

REED, A. LACHLAN

Futures: Professional engineering.

39:4:30-31, 34

Brief biog. & photo.

39:4:31

REED, ALBERT C

New faculty member in Aeronautical Dept. 14:133

REED, EDITH.

Engineers' Day Queen, 1935; photo.

15:172

REED, HENRY R

Senior describes desirable student.

5:7:14

REED, ROBERT

Euclid versus Einstein.

37:534-537,551

REES, R I

The student's college record as a forecast
of success.

11:5,22

REESE, JAMES A

Introduction to Agricultural engineering;

illus. 38:4:14-15,46

Scythes to slide rules; illus.

39:1:15,54

Farmhand-a leader in small business;

illus.. 39:5:10-13

Brief biog. & photo.

39:5:13

REFLING, OWEN.

Future of aviation (Tau Beta Pi essay) 24:128

REFRIGERATION.

Electrical refrigeration; illus.

6:255,272

REGAN, J

MACVEIGH.

Biog. and photo.

28:274

REGAN, JAMES T

Low temperature regrigeration; illus.

30:8:6-7,46

Brief biog. and photo.

30:8:7

REGENTS' PROFESSORSHIPS.

Article re.

55:1:29

REGISTRATION.

Late registration; editorial.	10:189
Editorial.	13:147
Unnecessary expense; editorial.	14:144
Hits some snags; ed.	17:84
Problems involved; ed.	23:120
Happy registration days.	23:170
Record breaking registration.	27:18
Tech Commission backs preference for seniors-new program	27:122
Possibility of preferential enrollment for seniors not acted on.	27:198
Are you troubled by registration; illus.	28:58-60

(CONTINUED ON NEXT CARD)

REGISTRATION.

(CARD 2)

- As we see our registration procedure with
a plan for improving it. 28:91
- As we see student attitude and its effect
on registration. 28:175
- Registration remembrances; illus. 30:5:18-19
- Note re problems with one year program. 35:6:64
- Stacking the deck (computer registration) 54:2:15-17
- Article re government registration of
engineers. 57:1:21-24
- Computer registration discussed with
Ben Sharpe; illus. 62:4:13-15

REGISTRATION.

(Card 3)

Students able to register during Spring quarter
for the following Fall.

66:6:6-7

REHABILITATION CENTER

Center's Gait Lab compares pre and post therapy
performance of arthritic patients; illus,: photos. 65:4:12-14

REHFELD, JOHN.

Up front; photos.

" " " "
" " " "
" " " "
" " " "
" " " "
" " " "

42:1:22

42:2:26

42:3:20

42:4:27

42:5:24

42:6:20

42:8:26

Inside industry; illus.

43:6:20-22

Brief biog.

43:6:20

REICHERT, J S

Perfects chemical process to make wool
non-shrinkable.

19:46

REID, C T

The field of aircraft production; illus. 21:34-35

REID, JOHN J

Cancer detection research described;
illus.

34:2:21,40

REINERT, CHARLES P

The University sends a team to study the
sun; illus.

44:5:8-11,38

REISS, DONALD E

Treated wood; illus.

31:1:14-15,36

REKOW, DIANNE.

- James Clerk Maxwell (1831-1879);
illus. 47:1:34-35
- Robert Goddard (1882-1945); illus. 47:2:32-33
- Leonardo da Vinci (1452-1519);
illus. 47:3:36-37
- Bertrand Russell (1872-). 47:4:48-49
- Josiah Willard Gibbs (1839-1903);
illus. 47:5:26-27
- Lee De Forrest (1873-). 47:6:26-27
- J. Robert Oppenheimer (1904-1967);
illus. 47:7:12-13
- Marie Curie (1867-1934). 47:8:28-29

Continued on next card

REKOW, DIANNE.

(Card 2)

The technical writer.

48:2:16-17

Develops a system to make inexpensive dental crowns using computer aided design and manufacturing (CAD/CAM) systems; illus.

68:3:8

REKOW, MARLIN.

One small step; illus.

50:1:25-28

Experimental cars from General Motors; illus.

50:4:16-19,36

RELATIVITY.

Einstein theory of relativity.

2:4:8-9,22

You don't have to be an Einstein to understand relativity; illus.

22:148-149

RELIGION.

Religion and the engineer.

6:105

Review of the Religion of an Electrical Engineer.

7:105,130

Editorial comment.

24:158

REMINGTON, STEPHEN D

Here come the jets; illus.

Brief biog. and photo.

31:2:6-8

31:2:7

RENFROW, W B

Working on Vitamin E research.

21:43

RENIER, J J

Gives commencement address, 1981; text; port. 62:1:46-49

RESEARCH.

How to do research.	2:3:15
Mechanical research work.	2:4:16
Electrical research.	2:5:9
Research in Eng. College; editorial.	2:6:10
Research at Minnesota.	2:6:15
Mechanicals in graduate and research work.	3:1:27
Under the surface (Electrical Eng.)	7:169,188
Researches at Minnesota; illus.	13:202-203,228- 229
Chemists carry on numerous research studies in several fields; illus.	14:108

(CONTINUED ON NEXT CARD)

RESEARCH.

(CARD 2)

- Institute expands it facilities for research;
illus. 18:50-52
- Research in the Institute; illus. 19:34-35, 58-59,
82-83, 108-
109, 134-135,
154-155, 180-
181
- Research in the Institute; illus. 21:38, 59, 81,
105, 136,
- Research at Minnesota; illus. 22:120-121
- Research and research at Minnesota. 28:26, 62, 112,
152, 192, 234,
282

● (CONTINUED ON NEXT CARD)

RESEARCH.

(CARD 3)

Research and its value in education.

28:319,350

As we see: is divorce the answer to
research vs. education.

28:217

Research.

29:110-111,160,
208,248,
292-293

Growing...a threat to research.

37:232

Speaking with the Dean (Cheston) re
secret research.

49:5:12

Research vs. teaching.

56:4:22-23

C.Peter Magrath speaks against federal
government restrictions on university research
before special panel of the Nat'l Acad.
Sciences.

63:2:7

RESERVE MINING COMPANY.

Lake Superior polluted?

52:2:14-15,24-27

Superior vs. taconite.

54:2:8-14

Scientific integrity.

54:6:10

Ed re.

56:3:5

REYERSON, LLOYD H

- Reclamation work progresses at the Zuider-
zee; illus. 9:78,96
- Speaks to AICE on German chemical plants. 9:134
- Speaks on I.T. research at Northwest
Research Institute. 18:202
- Biog. and photo. 19:41
- Brief biog. and photo. 23:68
- Victory through molecules at war; illus. 23:74-75
- Biog. and photo. 26:18
- A brief discussion of the School of
Chemistry; illus. 26:322
- Photo. 27:270
- Brief note re his minia- ture topo-
graphy research; illus. 28:152

(CONTINUED ON NEXT CARD)

REYERSON, LLOYD H

Biog. and photo.

What shall I study: chemical engineering
or chemistry?

(CARD 2)

28:335

34:3:13,38

REYNOLDS, JAMES L.

New frontiers in industrial engineering.

42:3:14-15,
34

Brief biog.

42:3:15

REYNOLDS, ROBERT.

Photo.

21:188

Superior men make this year's E Day
a success; photo.

22:209

Purloined prototypes; illus. humor.

24:170,206-

207,238-239

RHAME, PAUL W

Benzol-gasoline for auto fuel, test runs in
automotive lab. fail to reveal any superiority
in commercial mixtures.

3:3:8

Mrs. Rhames dies. obit.

5:7:22

RHODES, JOEL.

The coefficient of lipstick distribution. 25:171,186

RIACH, GERALD E.

The disasters of the War; Ta Beta Pi
winning essay.

42:4:20

RIAZ, MAHMOUD.

Biog. and photo.

46:1:24

RICE, ROBERT.

Brief biog. and photo.

28:88

Just released for your convenience;
illus.

28:95

RICHARDS, WILLIAM H

The new wood working lathe; illus.

11:9,20

Minnesota offers outstanding lecture
course in mechanical technology; photo.

13:120

Retires.

26:68

RICHARDSON, HARLOW C

Tours Europe during the summer.	8:77
Brief biog. and photo.	8:147
Speaks to Alpha Tau Sigma.	11:80
Toast master for 1st annual Tech. banquet, 1931.	11:213
Biog. and photo.	12:63
Speaks on European architecture to Architects' Society.	12:114
Takes trip to California.	14:21
<u>Old and new rub elbows in China and Japan</u> (account of trip); illus.	15:72-73, 82-83
Returns from trip to Europe.	16:21

(CONTINUED ON NEXT CARD)

RICHARDSON, HARLOW C

(CARD 2)

Iceberg travel in Svalbard; illus.

16:70-72

We climb Fujiyama; illus.

18:80-82

Elected vice-chairman of Engineering

Colleges Magazine Association.

18:93

Photo.

20:35

Heads E.C.M.A.

20:43

Biog. and photo.

20:142

Photo.

20:205

Biog. and photo.

21:197

In group photo.

23:160

Biog. and photo.

25:180

Retires; photo.

26:20

In Hawaii; photo.

26:282

Teaching at Rollins



College, Fla. 30:5:17

RICHARDSON, JEAN.

1953 E Day Queen; photo and note.

34:2:26

RICHARDSON, PHILIP E

First A.I.E.E. meeting.

3:2:24

RICK, NORMAN.

Easier to spread is liquid fertilizer;
illus.

Brief biog. and photo.

30:8:10-11, 34

30:8:10

RICK, PAUL.

Young man, I'm selling; illus.

32:2:12-13

RICKOVER, VADM. H. G

A humanistic technology.

47:6:12-14,16-17

RIDDELL, DONALD (FUZZY)

On varsity football team; photo.

7:45

Elected St. Pat.

8:180

St. Patrick tells how we go the

Blarney stone. illus.

8:240, 254

1928 St. Pat; photo.

8:241

RIEBE, RICHARD.

Living in 1965; illus.

28:308-310, 340

RIETH, PETER.

Addresses I.T. graduating class of 1986; photo.

67:1:17-18

RIGGER, DON.

Candidate for All-U Council; photo.

26:276-277

RILEY, A V

Are you troubled by registration; illus. 28:58-60

RINDSLAND, WILLIAM C

1933 E Day chairman; photo.

13:221

Know your Army Coast Artillery Corps;
illus.

23:18-19

RINK, JACK.

- | | |
|---|------------|
| <u>Working with your hands.</u> | 55:5:21-23 |
| <u>Waging a private war on unemployment.</u> | 55:6:9-11 |
| <u>Updating your education.</u> | 56:1:30-31 |
| <u>Exploring Mars: insight by Alfred Nier; illus.</u> | 56:2:10-13 |
| <u>The U's \$100,000 car; illus.</u> | 56:4:8-11 |
| <u>Minnesota dons a dome (humor); illus.</u> | 56:5:22-23 |
| <u>The new breeds; illus.</u> | 56:6:22-24 |
| <u>Limited enrollment.</u> | 57:1:16-19 |
| <u>A trend in engineering.</u> | 57:1:21-24 |

● (Cont. on next card)

RINK, JACK.

(Card 2)

Superconductors; illus.

57:3:7-9

What really happened on Foresters'

Day (humor).

57:4:26-28

RINK, JOHN R

Atoms can be peaceful; illus.

Brief biog. and photo.

31:5:10-11,26

31:5:11

RIPKEN, JOHN F

The why and wherefore of the new
Hydraulic Lab.; illus.

18:173-174

RISHAVY, JEROME.

Color television; illus.

31:3:10-11,46

RIVER FLATS.

Reclaimed by Minneapolis; ed.

57:1:4

ROBBERS, MARJORIE.

1941 E-Day Queen; photo.

21:181

ROBERT STREET BRIDGE, ST. PAUL.

St. Paul builds new bridge; illus.

4:7:9,28

Long trestle built in record time;
illus.

5:6:9

ROBERTS, EMERSON B

The graduate in industry. illus.

6:179,194

ROBERTS, HARRY.

Blasting at Bethlehem; illus.

3:2:8-9,29

ROBERTSON, BURTON J

Airplane engines; illus.

10:113,115

The technical alumni association.

11:10-11

The aircraft diesel engine; illus.

11:202-203,222

Brief biog.

14:63

Article re research on auto cylinder wear; illus.

20:110

Supercharged power (auto engines)

21:59

Biog. and photo.

21:117

Photo.

22:121

Biog. and photo.

26:18

Brief. biog. and photo.

26:264

Diesels are the engine of the future;
illus.

26:268-269,292

ROBERTSON, JAMES, S

Brief biog. and photo.

20:180

From Institute to Arts: re type of
education.

20:183

ROBERTSON, KENEFICK

Arabs will present "Riquiqui". illus.

4:6:10,30

Audio-frequency amplification. illus.

5:2:15,32

ROBERTSON, RHODES.

25 years of architecture; illus.

26:31

Future developments in architecture.

26:318

ROBERTSON, TRUMAN

1956 E-Day Ticket Chairman; photo.

36:542

ROBINSON, CHAIR

University radio amateur society; illus. 36:361-362
Brief biog and photo. 36:362

ROCHEN, HERBERT DAVID.

Purloined prototypes (humor)

Purloined prototypes (humor)

23:238

24:16,50,76,

108

ROCHESTER, MINN.

Modern sewage disposal: Austin and Rochester
plants; illus.

6:76-77,86

ROCKETS.

Rocketry from fable to fact; illus.

21:82-83

How rockets work; illus.

24:8,17

ROCKWELL, JACK.	
Cover design.	21:3,4,6,8
Brief biog. and photo.	21:98
<u>Dull gray bows out to color photo-</u> <u>graphy; illus.</u>	21:106-107
Cover design.	22:1
Photos. for article.	22:13
Photos for article.	22:64-65
<u>You are an engineer; illus.</u>	22:111
Photos for article.	22:200-201
Photo.	22:204
Brief note and photo.	22:232
Ed. comment re war effort of engineering students.	23:20
<u>The pied typer.</u>	23:32,64,96, 120,160,184, 216,240

RODRIGUE, RONALD

Relax...engineer, meet mother nature;

illus. 37:130-132

Engineers, need a date? illus. 37:215-218

Engineers: how about a trip to
Mexico; illus. 37:373-377

For bookworms only. 38:6:56-57

ROE, HARRY B

Agricultural engineering (history and description of four-year course), illus. 6:5-6,20

Is author of article in Scribners';
resume given. 8:76-77

Appointed acting chief of Agricultural
Engineering Division. 19:88

ROELL, WILLIAM.

Candidate for Board of Publications; photo. 26:276-277

ROGERS, D A

The Gopher rowboat motor. illus.

9:184

ROGERS, MARVIN C

<u>The Signal Corps at Camp Custer</u> ; illus.	4:1:13-14
<u>Chemical manufacture</u> : re summer lab course in chemical engineering; illus.	6:42-43
Added to Chemical Engineering staff.	18:94
Why technical societies?	18:130-131
Research in the Institute: auto cylinder wear; illus.	20:110
Brief biog. and photo.	20:122
Chemical warfare; illus.	20:130-131
Resigns for position in industry.	21:22
Brief note re activities.	23:88

ROGERS, TOM.

1932-33 Business Manager of the Technolog;	
brief note and photo.	13:254
Brief note re activities.	14:113
Brief note re activities.	15:150
Brief note re activities.	18:114

ROHN, RICHARD L

The death of Richard Rohn. photo.

8:272

Elected business manager of Technolog;
photo.

8:278

ROLCHAU, DAVID.

1953 E-Day Picnic chairman; photo.

33:8:10

ROLLINS, DON.

Captain of Gym Team; photo.

13:19

ROOSEVELT, FRANKLIN DELANO.

A nation's loss; editorial comment;
photo.

25:232-233

ROOTER SECTION

see

FOOTBALL.

ROSEBERGER, BRUCE.

Ship-radio operating.

Photo.

20:16

20:16

ROSEKRANS, DAVID.

Stock cars; illus.

Nylon; illus.

34:3:16-17,36

34:6:21,44

ROSEMOUNT AERONAUTICAL RESEARCH CENTER.

Supersonic research; illus.

32:1:26-27

ROSEMOUNT ENGINEERING CO.

Spotlight on local industry; illus.

44:1:41,44

ROSHOLT, GORDON.

- A Century of Progress in engineering
(World's Fair, Chicago) illus. 13:40-41,58
- 1933-34 Business Manager of the Techno-
log; biog and photo. 13:254
- 1933-34 Business Manager of the Techno-
log; biog and photo. 14:172

ROSS, BETTY.

1942 E Day Queen; photo.

Photo with St. Pat.

22:8:cover

22:205

ROSSINI, DAN

1957 E-Day ticket chairman; photo.

37:616

ROTH, FREDRICK.

Illus. for article.

19:84

ROTHMAN, JANE.

Quoted re her experiences in
engineering; port.

56:3:10-11

ROVING PHOTONS.

- | | |
|--|--------|
| Article re new organization for
Physics majors. | 55:5:6 |
| To sponsor series of physics talks. | 57:5:5 |

ROWBOAT MOTOR

SEE

GOPHER OUTBOARD MOTOR.

ROWELL, LESTER J

A history of the Blarney Stone. illus.

9:262-263

Brief note re activities.

16:80

ROWEN, JOHN HOWARD.

Critical speed of shafts or rotors.

1:7:5-8

The theory of numbers.

3:2:16

In memorian.

4:1:17

ROWLEY, DOUGLAS W

Pressure electricity; illus.

Brief biog. and photo.

31:4:10-11, 20

31:4:11

ROWLEY, FRANK B

Research at Minnesota.

2:6:15

Engineering research work; illus.

3:8:5,18

Comparative strength of walls; illus.

4:6:7-8,32

Insulating materials testing; illus.

6:252-253,276

Minnesota, the home of insulating materials (re Rowley's research); illus.

8:6-7,26

Biog. and photo.

8:81

Becomes aviator.

9:82

Designs apparatus for testing the heat conductivity of woods.

11:20

Elected vice president of the American Society of Heating and Ventilating Engineers; photo.

11:130,142

(CONTINUED ON NEXT CARD)

ROWLEY, FRANK B	(CARD 2)
To attend heating conference.	12:95
Returns from western lecture trip.	13:52
Author of University bulletin on heat transmission.	13:120
Develops dust-counter.	17:11
Institute expands its facilities for research; illus.	18:50-52
Article re research on the importance of air-conditioning and building insulation industries.	19:58-59
Photo.	20:205
A.S.M.E. hears Rowley.	21:115
Research on physical properties of structural insulating boards, ill.	24:178

(CONTINUED ON NEXT CARD)

ROWLEY, FRANK B	(CARD 3)
Biog. and photo.	25:242
<u>Engineering Experiment Station</u> ; illus.	26:331, 360
Photo.	26:348
Art. re research on physical properties of structural insulating boards; photo.	27:179
Photo.	27:270
Brief note and photo.	27:312-313
<u>Mechanical engineering.</u>	28:11, 32
Photo and brief note re research. Heat transfer through insulation studied; illus.	28:192
Biog. and Photo.	28:335
Introducing mechanical engineering; photo.	29:179

ROY, KEN.

Graco; illus.

50:3:34-35

ROYERE, CLAUDE.

Article re research on solar reactor/furnace;
illus.

62:1:34-39

ROZYCKI, RICHARD C

Supersonic bang. (booms); illus.

35:8:38-39

RUBBER.

Jobs in the rubber industry; illus.

20:87

A potential reserve of the future;

illus.

21:102-104

Government synthetic program rolling
to victory on Buna S.

24:6-7

RUBBER CHAIN.

New organization for Chemical Engineers
in process of formation.

4:3:21-22

A worthy organization?

4:4:20

RUMBAUGH, L H

To aid in national defense program. 21:22

Flies to Hawaii on naval defense work. 22:128

RUNGE, MARSHALL

<u>Color with your camera;</u>	illus. Part I	39:6:14-15, 30
	Part II	39:7:7-9, 44
Brief biog & photo.		39:6:30

RUSS, LLOYD.

On hockey team; photo.

8:150

RUSSELL, MARY.

1949 E-Day queen; photo. and note.

29:322-323

RUSSIA.

Russia; illus.

11:65-67,82

Recent progress in the Soviet Union;
illus.

11:124-125,136,
98-99,116

RUST

SEE

CORROSION

RUST, LARRY

Nucleus via low energy nuclear physics. 38:8:9
Probing the sky. 39:1:14, 52
From Trails to turnpikes; illus. 39:1:34-36

RUST, LAWRENCE.

Hit the silk; illus.

43:2:8-11,54-55

RUSZAJ, NORBERT F

Brief biog. and photo.

22:52

Helicopters man made birds; illus.

22:60-61,70

Biog. and photo.

24:212

Past, present and future in aeronautics; illus.

25:34,46

Plans under way for new wing for aeros; illus.

24:223,234

RUTFORD, DAVID.

Le Monstre Formidable (raft trip down the
Mississippi with Fred Hallberg and Donald

Grey. Part 1; illus.

36:2:63-67, 90

Part 2; illus.

36:3:126-129,
160

Part 3; illus.

36:4:230-233,
247-251

RUTH, B F

Discovers laws of filtration.

13:87

Brief note re activities.

19:64

RYAN, CLIFFORD.

Photo.

17:127

Photo.

17:152

RYAN, JAMES JAY.

Appointed Assist. Prof. in M.E.; brief biog.	12:14
To conduct motor test.	12:166
<u>How an oscillo-vibrograph records minute vibrations</u> ; illus.	13:230
<u>Polariscope pictures stresses in new M.E. lab.</u> ; illus.	16:3-5
Article re his research in stress analysis; illus.	17:79
<u>Are you worried about your job?</u>	18:109
Research: stress determination by photo-elastic analysis; photo.	19:35

(CONTINUED ON NEXT CARD)

RYAN, JAMES JAY.

(CARD 2)

Article re his research: engineering with high speed flash; photo.	22:176-177
Biog. and photo.	26:235,252
Directs study on stress on parachute cloth; illus.	32:5:16
<u>Engineers' unions</u> : con.	32:8:16,50
Note re auto research.	33:2:24
Article re his research: safe cars for a safe future.	33:7:12-13
<u>What shall I study? Mechanical Engineering</u> ; illus.	34:1:23
<u>The Minnesota overpass</u> ; illus.	37:2:103-105
<u>Develop a professional</u> <u>attitude.</u>	39:2:14-15,46-

47

(CONTINUED ON NEXT CARD)

RYAN, JAMES JAY

(CARD 3)

Photo .

39:2:15

Biog. and photo.

42:8:26

MSPE silver anniversary roster
is dedicated to Ryan as "Engineer
of the Quarter Century"; biog. and
photo included.

45:6:24

On the safety of seat belts;
telephone interview; illus.

47:6:28-31

RYAN, WILLIAM T

<u>Waterwheel turbine test; diagrs.</u>	1:1:7-11
Working with Minn. Tax Commission on valuation of electric power plants and transmission lines.	2:4:16
Assisting Minn. Tax Commission in valuation of hydro-electric properties.	2:8:11
Elected president of Minneapolis Engineers' Club.	3:4:24
Elected president of Minnesota Federation of Architects and Engineering Societies.	5:4:22
Faculty sketch; photo.	6:227

● (Continued on next card)

RYAN, WILLIAM T

(CARD 2)

Granted sabbatical leave to study in Europe; photo.

10:152,168
11:159,172

Resume of sabbatical year; photo.

Franklin Wesley Springer, 1870-1933;
illus.

13:132-133,157

Engineering professors give 1934 Sigma Xi lectures; Ryan speaks on power.

14:109

Brief note and photo.

14:112

Government electric power steps in;
illus.

16:110-112

Power as an enterprise; editorial giving background for article.

16:116

Obituary.

19:110

RYDELL, KENNETH A

Building on permafrost; illus.

34:1:14-15,30

RYDEN, ARNOLD.

Research in the Institute: skyward-15
miles (re Piccard's research); illus.

20:81

RYKKEN, NORDAHL.

Surveying with the senior civils (Civil summer
camp) map.

9:77,94

RYKS, DONALD E

Refining fissionable ores by solvent
extraction.

39:3:12-13,28

RYNNING, JIM.

Exhibits Committee chairman; photo.

27:263