INDEX - MINERAL INDUSTRIES

Volume 6, No. 1 (September, 1936) to Volume 10, No. 8 (May, 1941)

Note: First number indicates volume, second number indicates issue number, third and subsequent numbers indicate pages.

A

Air pollution 6:4:3

Alloys
deformation characteristics, research study 7:2:3
high temperature 9:7:1
series prepared for metallurgical laboratory 8:3:3

Aluminum industry 7:7:4

American Ceramic Society
conferences of, see Conferences
Penn State Branch
officers, 1936-37 6:2:3
program, 1940-41 10:4:3

American Institute of Mining and Metallurgical Engineers
Coal Division, prize award 6:2:4
Penn State participation in meeting 8:2:3

American Society for Metals, Penn State Chapter 6:2:4; 6:3:2; 7:2:3; 7:4:2

Andressen, K. H., appointment 7:1:1

Art gallery, M.I. 6:2:2; 6:3:3; 6:6:1-4
Ashe, E. M., paintings of 8:3:2
editorial of 8:3:2
exhibit in State Museum 6:6:1-4
Heppenstall painting donated to 8:1:3

Aurora borealis 8:3:1,4

Austin, C. R.
alloys, heat treating and ternary, studies 7:7:2
"Project Reports Heard at Fifth Meeting of Group Carrying on Research in Metallurgy" 9:3:4
"Review of Modern Heat Treating Theory and Practice" 6:5:1-3; 6:7:4; 6:8:3,4
"Steel Companies Assist in Metallurgy Research" 7:8:3,4

B

Bair, G. J., study in glass composition 7:7:1

B (Cont'd.)

Bellano, W., prize award to 6:2:4

Bissey, L. T., appointment 6:3:4

Bitumen, early discoveries 8:2:2

Bonine, C. A,
"Field Training at M.I. Camp" 10:5:1,4
"Geology Department Grows" 9:2:1,4
leave granted to 9:6:3

Bowler, E. P., appointment 7:1:1

Bradford District, Pennsylvania Oil Producers' Association see Pennsylvania Oil Producers' Association

Brady, G. A., fellowship award to 6:3:4

Bromine 7:7:4

Bruman, H. J., appointment 10:4:3

Buch, J. W.
appointment 7:4:2,3
committee appointment 8:7:3
mine subsidence study by 8:1:3
steel props in coal mines studied by 8:3:3

Buildings, M.I. School 7:5:1,2; 8:8:3

C

Cadman, W. K., "Means of Securing Bitumen Disclosed in Old Document" 8:2:2

Camp, M.I. 9:4:3,4; 9:8:2,3; 10:2:6; 10:5:1,4

Cartography 9:6:4

Cathcart, S. H., leaves service of Commonwealth 7:3:2

Cement Industry 7:7:4

Cementation 10:7:2

"Ceramic Research Men of M.I. Staff Explore Problems in Nature of Glass" N. W. Taylor 7:5:3,4

Ceramics, see also Glass, Pottery
art in 9:6:3
beneficiation seminar established 8:2:3

Ceramics (Cont'd.)
colloidal minerals, research project 10:3:3
color, symposium in 10:5:3
early American collection 9:6:3
employment opportunities in 8:5:3; 9:5:4
extension courses 6:6:4; 7:7:1
graduate students in 6:1:3; 9:2:3
history at Penn State 9:5:1,4
index donated 8:7:2
oriental, exhibit of 6:4:4
phosphates in 8:5:3
potash in 7:7:2
scope of work in 7:6:4; 10:2:7
women's courses in 8:6:3; 9:5:4

"Ceramics in Pennsylvania," E. Steidle 7:5:2

Chamberlain, J. A., appointment 9:8:4

Charmbury, H. B., appointment 7:1:1

Chedsey, W. R.
elected peresident of Coal Mining Institute 6:4:3
resignation 7:1:2

Chemicals, petroleum as raw material for 10:7:1

Chinese landscape, lecture on 6:2:2

Clarke, H. M., appointment to board of trustees 6:4:1

Clay, beneficiation of 7:2:4

Cloud prediction 10:7:8

Coal, see also Fuel
Alaska production 8:2:4
analysis of, procedures 6:1:3,4; 6:2:2
anthracite
activation research 10:4:1,2
gas production from 10:4:1
production 10:6:3
in Pennsylvania 1860-1939 10:6:3
reserves 10:6:4
trends 10:6:4,5
anthrafilt 8:2:4
bituminous
comfort heating research 10:4:2,4
oxidation research 10:4:4
production 10:6:4,5
reserves 10:6:5
solution research 10:4:4
stoker development program 10:4:2

Coal (Cont'd.)
tax yield from 8:2:2
trends 10:6:5,6
by-products, uses of 10:1:3
capital invested in industry 10:6:5,6
combustion, economy of 10:1:1,2
early history of 7:7:1
employment in 10:1,1-4; 10:6:6
industry, importance of 10:1:1-4
liquification studies 7:2:2; 7:7:2
mine safety, 1939 9:7:3
mine subsidence 7:5:1,2; 8:1:3
mineral matter in 6:3:1,2; 6:4:2,3
mining
employment in 9:8:1
mechanization 9:8:1
personnel needs 9:5:2,3
methods 8:2:1,4
steel props in 8:3:3
research program 8:8:3,4; 10:4:1,2,4
new uses 9:3:3
sampling procedures 6:1,3,4; 6:2:2
swelling pressure of, thermodynamic treatment of 10:7:8
transportation by railroads 10:6:6

"Coal and its Mineral Matter," A. W. Gauger 6:3:1,2; 6:4:2,3

"Coal Around the World," J. C. Cosgrove (travelogue) 8:3:1,4

"Coal Industry Beckons to Youthful Engineers," D. R. Mitchell 8:2:1,4

Coke in Pennsylvania 10:6:3

Colloids 10:3:1,3

Conferences
American Ceramic Society
Glass Division 7:1:3,4; 7:2:4
Materials and Equipment Division 6:1:1,2; 6:2:3
American Institute of Mining and Metallurgical Engineers 6:1:1,2; 6:2:3
American Society of Agricultural Engineers 9:8:2
American Society for Metals 7:7:1; 7:8:1,4; 9:6:2; 9:7:1,4
Central Pennsylvania Coal Producers' Association 8:2:4
Committee on Cooperative Research in Metallurgy 7:2:3; 8:1:4; 9:3:4
Institutional Engineers 6:1:3; 7:1:2; 9:1:3
Mineral Industries 6:1:1,2; 6:2:3; 6:7:1,2; 7:8:1-4
Miners' Day 7:7:1; 8:1:4; 8:7:1
Pennsylvania Geologist 6:8:2
Pennsylvania Grade Crude Oil Association Advisory Committee 7:2:1; 8:2:4

Conferences (Cont'd.)
Pennsylvania Oil Producers' Association, Bradford District 7:2:2,4; 8:2:1,4
Petroleum and Natural Gas 6:7:1,2; 7:7:1; 7:8:1,3; 9:6:3; 9:7:1-3; 10:7:1,2
water flooding 7:2:1

"Conferences at Penn State," E. Steidle 7:8:2

Conrad, V.
appointment 9:4:4
lecture series by 9:6:3

Cooke, T. G., appointment 7:1:1

Corbett, P. M., appointment 8:6:3

Cosgrove, J. C., (travelogue)by 8:3:1,4

Cressey, G. B., lecture by 6:2:2

Crystals, study of etch figure phenomena 6:4:3

"Cultural Aids in the Mineral Industries," E. Steidle 8:3:2

Curriculum
ceramics 8:3:3
English for M.I. students 8:5:2
extension, see Extension Services
fuel technology 6:8:1; 8:4:4; 9:4:2
historical development 8:8:1,3,4
gem stones 9:8:4
geography 9:6:1,4
historical development 9:2:1,4
geology, historical development 9:2:1,4
geophysics 7:1:1
metallurgy 6:2:4
historical development 9:1:1-4
mineral industries
functions of 8:8:1-3
historical development 8:7:1,4
summary of 7:6:1
"Mineral Industries Curricula," E. Steidle 8:1:2
mining engineering 7:4:2
historical development 9:3:1,2
petroleum and natural gas 6:2:1
historical development 9:4:1,2,4
trends in 9:6:2

D

Davis, H. M.
appointment 6:2:3

Davis, (Cont'd.)
dolomite, thermal decomposition studies 8:7:3

Defense, national
extension courses for training 10:5:3
M.I. in 10:1:2
training program 10:4:2

Dinosaur, model presented to school 6:7:3

Doran, R., appointment 7:1:1

Dunkelberger, T. H., appointment 7:1:1

Dunkirk Glass Co., fellowship established by 8:5:3

Dust, silica 10:5:4

E

"Earthquake in Pennsylvania on July 15," H. Landsberg 8:1:1,4

Earthquakes, studies of 7:7:3

Editorials, see Steidle, E.

Ellefson, B.
appointment 6:3:4
studies by 6:4:4

Employment opportunities
ceramics 8:5:3; 9:5:4
coal mining engineers 8:2:1,4; 8:5:1,2; 8:7:1,4
fuel technology 8:4:4; 9:8:3; 10:1:1-4
geographers 9:6:4
mining engineers 8:2:1,4; 8:5:1,2; 8:7:1,4

Enamels, lecture on 9:3:4

Enrollment, see also Extension Services
all-college, 1939-40 9:3:2
fuel technology 9:4:2
growth of 9:2:2
metallurgy 9:1:3
mineral industries
1937-38 7:2:3
1938-39 8:1:1
1940-41 10:2:2
mining engineering, trends 9:3:1,2

Experiment Station
coal research projects 7:2:2; 10:4:1,2,4
history 8:7:4; 10:2:8

Experiment Station (Cont'd.)
M.I. problems and trends, bulletin on 9:1:2
objectives of 8:8:2
publications 8:5:2; 8:6:2,4; 8:7:2,3
research program 10:4:1,2,4; 10:6:8
work of 7:6:4; 10:2:8

Extension Division, see Extension Services
articles by staff members 7:7:3
centers, map showing 10:8:3
ceramics textbook 6:5:4
cooperation with Tennessee mining officials 6:3:4
curriculum 6:1:3; 6:5:4; 7:3:1,2; 8:2:3,4; 10:2:7; 10:8:1,2
ceramics 6:6:4
national defense training 10:5:3; 10:8:4
defense training classes 10:5:3; 10:8:4
enrollment
1935-36 6:1:3
1936-37 6:3:4
1937-38 7:3:1,2
1938-39 8:6:3
1939-40 9:4:3; 10:2:7
1940-41 10:8:3
geophysical prospecting 7:2:1
history of 7:3:2; 8:2:3; 8:7:4; 9:8:2,3; 10:8;1-4
location of classes 7:3:1,2
metallurgy, history of 9:1:4
meteorology course offered 8:5:3
objectives 8:8:2
program of, 1937-38 7:1:3
publications of 8:6:2
scope of work 7:6:4; 8:8:2; 10:2:7
staff 7:3:2; 10:8;2,3
textbooks published by 6:5:4

Extra curricular activities 10:5:2

F

Faculty
"Building a Faculty," E. Steidle 8:2:2
summarized data on 8:8:3

Fellowships
Dunkirk Glass Co. 8:5:3
Findlay Clay Products Co. 6:1:3
Rochester and Pittsburgh Coal Co. 6:3:4

Fetzer, M. C., appointment 7:1:1; 7:2:4

"Field Training at M.I. Camp," C. A. Bonine 10:5:1,4

F (Cont'd.)

Findlay Clay Products Co., fellowship established by 6:1:3

"First Public Exhibition," G. B. Fuller 6:6:1

Fluorescence 9:7:3

Fluorescent materials, display of 7:6:1

Fossil tracks, acquisition of 7:1:1,4; 7:3:1,3

Fritz, E. H., experience of 6:1:1

Fuchs, W., research studies by 10:7:4

Fuel, see also Coal, Gas, Petroleum
- gaseous, research in 10:3:2
- history of use and development of 6:8:1,2; 8:4:1,4

"Fuel Discoveries Spur Progress," A. W. Gauger 8:4:1,4

Fuel technology
- editorial on 9:4:2
- history of curriculum 6:8:1,2; 8:8:1,3,4
- research program 8:8:3,4
- scope of courses in 7:6:4; 10:2:6

"Fuel Technology as a Career," H. J. Rose 10:1:1-4

"Fuel Technology at Penn State," A. W. Gauger 8:8:1,3,4

Fuller, G.B. "First Public Exhibition" 6:6:1

"Future Assuring for Engineers in Petroleum and Natural Gas," S. Pirson 8:6:1,4

G

Gas
- artificial 8:4:1; 10:4:1
- natural
  - by-products 10:7:1
  - development of 8:4:1
  - history 8:6:1,4
  - importation to Pennsylvania 7:4:3
  - liquid storage of 10:7:2
  - moisture in 10:7:1
  - production in Pennsylvania 10:6:7
  - research projects 10:7:1,2
  - sales problems 6:7:1

Gas (Cont'd.)
producer 9:7:3
water, anthracite generation of 10:4:1

Gauger, A. W.
"Coal and its Mineral Matter," 6:3:1,2; 6:4:2,3
coal hydrogenation study 7:7:2
committee appointment 10:3:2
"Fuel Discoveries Spur Progress" 8:4:1,4
"Fuel Technology at Penn State" 8:8:1,3,4
"Pennsylvania at the Economic Crossroads" 10:6:8

Gault, H. R., appointment 8:2:4

Gears, hypoid, lubrication of 6:7:1

Gems, course in 9:8:8

Geography
history at Penn State 9:6:1,4
research projects in 9:6:4
scope of work in 10:2:3
text by R. E. and M. Murphy 7:4:1

"Geography a Key to World Affairs," E. Steidle 9:7:2

"Geography Looks Ahead," R. E. Murphy 9:6:1,4

Geology
camp, see Camp
exhibits in M.I. Building 6:4:1
field work in 10:5:1,4
history of department 9:2:1,4
scope of work of 7:6:4; 10:2:2
Silurian-Ordivician boundary studies 9:4:3

"Geology Department Grows," C. A. Bonine 9:2:1,4

Geophysical prospecting 7:2:1; 9:7:1

Geophysics
history of development 9:3:1,2
scope of work of 10:2:3

Glass, see also Ceramics
adherence to metals, studies in 7:5:3
annealing of 7:5:4
colored 7:7:2; 8:3:1,4
composition of 7:1:3,4; 7:7:1
contact angles 7:5:3
Czechoslavakian 8:3:3
decolorization 8:3:1,4

Glass (Cont'd.)
diffraction patterns 7:1:3
elongation of fibers of 7:5:4
gas diffusion through 7:5:3,4
gases in, study of 8:3:1,4
gold ruby 9:4:3
melting methods 8:5:3
nature of, studies in 7:5:3,4
phosphates in 8:5:3
properties of 7:1:4; 7:7:2; 7:5:4; 8:7:3
radiation measurements by 8:4:3
stabilized, properties of 8:3:3
surface tension 7:5:3
technology discussed by W. E. S. Turner 8:4:3

Glass technology, conference on 7:1:3,4

Grace, R. J., appointment 6:3:4

Gratonite 9:2:2

Gray, J. C,. prize awarded to 6:3:3

H

Haworth, C. C., appointment 6:3:4

Heald, K. C., counselor to M.I. Society 8:2:4

Heat treatment 6:5:1-3; 6:7:4; 6:8:3,4

Henry, E. C.
fellowship award to 6:1:3
"Instruction and Research in the Mineral Colloids" 10:3:1,3

Hershman, C. L., career of 8:6:1,4

Hewes, R. B., appointment 7:1:2; 8:6:3

Honess, A. P.
crystal study by 6:4:3
etch figure investigations by 7:7:2
faculty research lecture by 6:5:3
fellowship in Royal Society of Arts 8:1:1

Honor roll
1938-39 8:6:2
1939-40, 2nd semester 10:1:2

Horn, C. R., appointment 6:3:4

Hughes, H. H., "Minerals Yearbook 1938" edited by 8:1:2

H (Cont'd.)

"Huntsman Finds Rare Indian Pot," C. W. Robinson 8:5:1,2

I

Indian relics, pot found on Tussey Mountain 8:5:1,4

"Industrial Leadership Acquired by Processing World's Mineral Wealth," W. M. Myers 7:4:3,4

Institutional Engineers, see Conferences

"Instruction and Research in the Mineral Colloids," E. C. Henry 10:3:1,3

International Geophysical Union, grant from 7:7:2

Iron
graphite in 7:4:2
industry in Pennsylvania 7:3:3,4; 10:6:7,8
ore produced in Pennsylvania 10:6:7,8
sources for Pennsylvania industry 7:4:4

Ishler, N. H., appointment 6:3:4

J

Jones, J. R.
crystal studies by 6:4:3
etch figure investigations by 7:7:2

K

Kelsey, V. V., conference participation by 6:1:1

Kirby, C. V., "An Educational Force" 6:6:1

Kline. O. C., appointment 7:1:1

Koehler Manufacturing Company, safety equipment furnished by 6:2:4

Kreidl, N., appointment 9:4:3; 9:6:2

Krutter, H. M., appointment 6:3:4

Krynine, P. D.
appointment 7:1:1
elected Fellow of Geological Society of America 9:5:4

L

Landsberg, H.
advisor to Sigma Gamma Epsilon 8:2:2
articles by, list of 7:7:3
"Earthquake in Pennsylvania on July 15" 8:1:1,4
membership on committee to study oceanic basins 8:1:2
meteorological report to Turnpike Commission 10:4:4
mine subsidence studies of 7:5:1,2
research grants awarded to 7:7:2; 8:1:2
text on geophysical prospecting by 7:2:1
"Year 1938 Marked by Unusual Exhibitions of Northern Lights" 8:3:1,4

Lehigh Navigation Coal Co., scholarship from 10:5:4

Levi Smith Memorial Collection 7:6:1

Levine, J. S., appointment 6:3:4

Library, M.I.
acquisitions 7:1:2; 7:2:4; 8:7:2; 9:8:1,4
ceramics card index acquired by 8:7:2
growth of 6:4:4; 9:8:1,4
periodicals available 6:4:4
use by students 9:8:1,4

Light, artificial, history of 8:4:1,4

Lin, C. Y.
appointment 7:1:1
Orton Fellowship award to 7:2:4

Litinsky, L., ceramics index donated by 8:7:2

Long, J. R., resignation of 7:2:3

Luerssen, G. V., lecture on tool steel production 7:4:2

M

MacKenzie, J. T., lectures on graphite in iron 7:4:2

MacKenzie, J. T., Jr. appointment 7:1:1; 7:2:3

"Manganese in Pennsylvania," W. M. Myers 10:3:2,4

Mastodon, tusks from Saltillo on display 7:7:1

Mauck, H. E., prize award to 9:2:3

Mauthe, J. L.
appointed member of Board of Trustees 8:5:4
appointed superintendent Youngstown Sheet & Tube Co. 7:2:1

Maxwell, W. A., appointed president Colorado Fuel & Iron Co. 8:2:4

McFarland, D. F., "Metallurgy at Penn State" 9:1:1,3,4

McGlashan, D. W.
appointment 7:1:1; 7:2:4
froth flotation research by 8:2:3

McNamara, E. P.
appointment 6:2:1
study of glass properties by 7:7:2

McQuigg, C. E., appointment 6:5:3

Meetings, see Conferences

Merritt, J. B., prize award to 7:4:2

Metallurgical Society, Penn State 9:1:3,4

Metallurgy
advisory board in 6:2:4
curriculum 6:2:4
historical development 9:1:1-4
employment of graduates 6:2:4
history at Penn State 9:1:1-4
laboratory completed 8:2:3
research studies in 7:8:3,4; 9:1:4
conference on 9:3:4
cooperative program 7:2:3
student 6:2:4
scope of work in 7:6:4; 10:2:6

"Metallurgy at Penn State, D. F. McFarland 9:1:1,3,4

Metals
heat treatment 6:5:1-3; 6:7:4; 6:8:3,4
non-ferrous, in Pennsylvania 10:6:4
Pennsylvania resources 7:3:3,4

Meteorites, lecture on 6:3:4

Meteorology, see also Weather forecasting 9:5:2
aeronautical, course in 8:5:3
scope of work in 10:2:3

Miller, B. L., conference participation by 6:1:2

Mineral Industries, history at Penn State 8:7:1,4

M (Cont'd.)

Mineral Industries Building 7:5:1,2; 10:2:4,5

Mineral Industries Conferences, see Conferences

Mineral Industries Extension Work Reviewed," H. B. Northrup 10:8:1-4

"Mineral Industries History," E. Steidle 8:7:2

Mineral Industries School
scope of work of 10:2:1
publications by staff, 1936-37 7:7:1-3

Mineral Industries Society, Penn State
dinner meeting, 2nd annual 10:4:4
mining society becomes 8:2:4
officers, 1938-39 8:2:4
petroleum division organized 8:5:4

"Mineral Industries Studies Inaugurated in 1859," E. Steidle 8:7:1,4

Mineral preparation, courses in 10:2:6

Mineral reserves, see also Pennsylvania 7:2:2

"Mineral Technologists to Our Defense," E. Steidle 10:1:2

Mineralogy, see also Geology
history 9:2:1,4
scope of work in 10:2:2,3

Minerals
exhibits of 6:4:1
resources 10:7:4
in Pennsylvania 7:2:2; 7:4:3; 10:6:7
U. S. need for certain 10:3:2; 10:3:4

Miners' Day 7:7:1; 8:1:4; 8:7:1

Mines
roof falls in 7:7:3
subsidence 7:5:1,2
U. S. Bureau of, hydrogenation study in cooperation with 7:2:2

Mining, curriculum 9:3:1,2; 10:2:3,6

"Mining Curriculum Expands," D. R. Mitchell 9:3:1,2

"Mining Engineer, What He Does," D. R. Mitchell 8:5:1,2

"Mining Engineer, Where He Goes," D. R. Mitchell 8:7:1,4

M (Cont'd.)

Mining engineering
employment opportunities 8:7:1,4; 9:5:2,3
history at Penn State 9:3:1,2
reorganization of department 7:4:2

Mining and Geophysics, scope of work in 7:6:4

Mining Society, Penn State
becomes M.I. Society 8:2:4
smoker of 6:3:4

Mitchell, D. R.
appointment 7:4:1
"Coal Industry Beckons to Youthful Engineers," 8:2:1,4
"Mining Curriculum Expands" 9:3:1,2
"Mining Engineer, What He Does" 8:5:1,2
"Mining Engineer, Where He Goes" 8:7:1,4
sponsor to M.I. Society 8:2:4

Monsanto Chemical Co., research project for 8:5:3

Morrill Act 9:8:2

Murphy, R. E.
article on Pennsylvania geography 7:7:2
"Geography Looks Ahead" 9:6:1,4

Murphy, R. W. and M., geography text by 7:4:1

Museum, M.I.
acquisitions 6:2:3; 6:5:4; 7:1:1,3,4; 7:2:3; 8:6:1,4; 9:2:2; 9:4:3
description of 6:4:1; 8:4:2,4

Myers, W. M.
appointment 7:1:1; 7:2:1
"Industrial Leadership Acquired by Processing World's Mineral Wealth" 7:4:3,4
"Manganese in Pennsylvania" 10:3:2,4
"Pennsylvania Industry Dependent on Mineral Resources of Commonwealth" 7:3:3,4
"Pennsylvania, Pioneer in Mineral Technology" 7:7:3,4
"William Penn's Mineral Heritage" 10:6:1-7

N

"Need for Technical Men in Coal Mine Mechanization Program," E. Steidle 9:5:2,3

N (Cont'd.)

Nelson, H. W., "Fuel Technology" 6:8:1,2

Neuberger
appointment 7:1:1,2
cloud production studies 10:7:8
polariscope constructed by 8:1:2

"New Phase of Pre-Employment Education in Mineral Industries," H. B. Northrup 9:8:1

Nielson, R. F., appointment 9:8:4

Nininger, H. H., lectures on meteorites 6:3:4

Northern Lights 8:3:1,4

Northrup, H. B.
committee appointment 10:1:2
"M.I. Extension Work Reviewed" 10:8:1-4
"New Phase of Pre-Employment Education in Mineral Industries" 9:8:1

"Notes on the Collection and Reduction of Coal Samples," J. A. Younkins 6:1:3,4; 6:2:2

O

Oil, see Petroleum

Oil Production Laboratory 6:2:1

Open House, M.I. 7:4:1; 7:6:1-3

Orton Fellowship, award to C. Y. Lin 7:2:4

P

"Penn State Ceramics Program" N. W. Taylor 9:5:1,4

Penn State Metallurgical Society, see Metallurgical Society

Penn State Mineral Industries Society, see Mineral Industries Society

Penn State Mining Society, see Mining Society

Pennsylvania
ceramics industry in 7:5:2
coal production 10:1:4
coal reserves 10:6:4,5
manganese in 10:3:2,4

P

Pennsylvania (Cont'd.)
mineral industries in
importance of 10:2:1
sources of raw materials for 7:4:3,4
mineral industries problems and trends, bulletin on 9:1:2
mineral production 10:6:1-7
mineral resources 7:2:2; 7:3:3,4; 7:4:3,4; 9:2:3,4
10:6:1-7
mineral technology in 7:7:3,4

"Pennsylvania at the Economic Crossroads," A. W. Gauger 10:6:8

"Pennsylvania Geologists, see Conferences

"Pennsylvania Grade Crude Oil Association, see Conferences

"Pennsylvania Industry Dependent on Mineral Resources of Commonwealth," W. M. Myers 7:3:3,4

Pennsylvania Oil Producers, Bradford District
accomplishments of 10:7:2
appointments for project 6:3:4; 7:1:1
conferences 7:2:2,4; 8:2:1,4
drawings presented by 7:2:1
meeting sponsored by 7:2:1
research projects of 7:2:2,4

"Pennsylvania, Pioneer in Mineral Technology," W. M. Myers 7:7:3,4

Pennsylvania Turnpike
geological problems 10:3:4
meteorological information required by 10:4:4
silica dust in tunnel construction 10:5:4

"Pennsylvania's School of M.I. Fills an Urgent Need," E. Steidle 8:8:1-3

Petroleum
air drive development 10:7:1
by-products 10:7:1
chemistry of 9:7:1,2
"creekology" 10:5:2,4
curriculum in 9:4:1,2,4
deep sand explorations 9:7:2
early discoveries 8:2:2
electrical well logging 6:7:1
experimental well 9:4:4
history of 8:6:1,4; 10:6:7
horizontal wells 9:8:4
pipe line corrosion 6:7:1
prospecting formula 10:5:2,4
research in, see also water flooding 9:4:2

Petroleum (Cont'd.)
reserves 8:6:4
reservoir rock study 6:7:3
secondary recovery 6:7:2; 7:1:1; 7:2:1; 9:8:4
seismographic prospecting 6:7:1
sources of 7:4:3
water flooding 8:1:2; 8:2:1,4; 8:3:2; 9:8:4; 10:7:1
well shooting 6:7:1

Petroleum and Natural Gas
articles by members of department 7:7:3
conferences, see Conferences
curriculum 6:2:1
enrollment in 6:2:1
laboratory 6:2:1
scope of work of department 7:6:4; 10:2:6

"Petroleum and Natural Gas Engineering at Penn State," S. J. Pirson
9:4:1,2,4

Pfoor, K. D.
appointment 7:1:1,3
resignation 8:5:3

Pincus, A. G., research studies of 8:2:3; 8:3:1,4; 8:7:3

Ping, K., appointment 7:1:1

Pirson, S. J.
career of 6:2:1
"Future Assuring for Engineers in Petroleum and Natural Gas"
8:6:1,4
"Petroleum and Natural Gas Engineering at Penn State"
9:4:1,2,4

Pittsburgh Coal Co., scholarship established by 9:2:2,4

Plastics. petroleum as raw material for 10:7:1

Polariscope 10:7:8

Polarization, atmospheric, study of 8:1:2

Porcelain, lecture on 9:3:4

Porous materials, impregnation of 7:7:2

Pottery
Greek 8:4:3
Indian 8:5:1,4
Pennsylvania Dutch 9:3:4

P (Cont'd.)

"Project Reports Heard at Fifth Meeting of Group Carrying on Research in Metallurgy," C. R. Austin 9:3:4

Publications
fuel technology staff 8:8:4
M.I. staff 7:7:1-3
mining engineering staff 8:3:3

Pugh, E., interest in M.I. 8:7:1,4

Q

R

Radiation of short wave length 8:1:2

Randall, J. R., study of Canadian clay belt 7:7:2

Refractories in Pennsylvania 10:6:3,4

"Relation of Minerals to War and Peace," E. Steidle 10:7:3,4

"Research in Coals Described," C. C. Wright 10:4:1,2,4

Research projects, summary of 8:3:3; 8:6:2

"Review of Modern Heat Treating Theory and Practice," C. R. Austin 6:5:1-3; 6:7:4; 6:8:3,4

Riggs, G. W., obituary 6:5:4

Robinson, C. W., "Huntsman Finds Rare Indian Pot" 8:5:1,4

Rochester and Pittsburgh Coal Co., fellowship established 6:3:4

Rose, H. J., "Fuel Technology as a Career" 10:1:1-4

Rostosky, A., scholarship winner leads class 9:8:3

S

Safety lamps, collection of 6:4:3

Salt industry 7:7:3,4

Samans, C. H., appointment 7:1:1; 7:2:4

"Scholarship and Extra curricular Activities," E. Steidle 10:5:2

S (Cont'd)

Scholarships
Lehigh Navigation Coal Co. 10:5:4
Pittsburgh Coal Co. 9:2:2,4

"Seismograph Station," E. Steidle 7:7:2

Seismology, research in 8:2:4

Shallcross, S. M., conference participation by 6:1:1

Shaw, M. C., conference participation by 6:1:1,2

Sherman, J., research by 7:7:2

Siefert, A. C., appointment 7:1:1

Sigma Gamma Epsilon, activities of 8:2:2

Silica dust 10:5:4

Smith Memorial collection, Levi 7:6:1

Solid fuel, see Coal

Steel
hardenability 9:7:1
high carbon 7:2:3
quenching 9:7:1
tool, production of 7:4:2

"Steel Companies Assist in Metallurgy Research," C. R. Austin 7:8:3,4

Steidle, E.
articles
"M.I. Studies Inaugurated in 1859" 8:7:1,4
"Need for Technical Men in Coal Mine Mechanization Program" 9:5:2,3
"Pennsylvania's School of M.I. Fills an Urgent Need" 8:8:1-3
"Relation of Minerals to War and Peace" 10:7:3,4
editorials
"Building a Faculty 8:2:2
"Bulletin 27 9:1:2
"Ceramics in Pennsylvania" 7:5:2
"Conferences at Penn State" 7:8:2
"Cultural Aids in the M.I." 8:3:2
"Decade of Progress" 10:7:2
"Enrollment" 9:2:2; 9:3:2
"Extension Services" 7:3:2
"Fuel Technology" 9:4:2
"Geography a Key to World Affairs" 9:7:2
"Industrial Need Fulfilled" 10:2:2

Steidle, E. (Cont'd.)
editorials
"Mineral Economics" 7:2:2
"Mineral Industries Curricula" 8:1:2
"Mineral Industries History" 8:7:2
"Mineral Technologist to Our Defense" 10:1:2
"Mining Department Recast" 7:4:2
"Pioneering Extension Education" 10:8:2
"Scholarly Attitude" 8:6:2
"Scholarship and Extra curricular Activities" 10:5:2
"Seismograph Station" 7:7:2
"Some Practical Aspects of the Morrill Act" 9:8:2
"Some Trends in M.I. Education" 9:6:2
"Specialized Training for Defense" 10:4:2
"Student Expression" 8:5:2
"Visual Aids in the Mineral Industries" 8:4:2,4
"War for Minerals" 10:3:2
"What Are the Facts?" 10:6:2
"Weather Forecasting at Penn State" 9:5:2
mineral specimens obtained by 9:2:2
"Trends and Objectives," see editorials
visit to Europe 8:1:2

Stohr, R. W., appointment 7:1:1

Subsidence, mine 7:5:1,2

Swain, F. M., appointment 8:2:4

Swartz, F. M., studies of 6:2:3; 7:7:2

T

Tatnall, F. speaks at meeting 6:3:2

Taylor, N. W.
attends International Conference on Glass 6:1:3
"Ceramic Research Men of M.I. Staff Explore Problems in Nature of Glass" 7:5:3,4
clay, beneficiation of, study of 7:2:4
"Penn State Ceramics Program" 9:5:1,4
research projects of 7:1:3; 7:7:2

Thomas, W. G., appointed Deputy Secretary of Mines 10:5:3

Timkin Steel & Tube Co., equipment given by 6:2:4

Tinplate industry 7:7:4

Todd, F. C., appointment 6:6:4

T (Cont'd.)

"Trends and Objectives," see Steidle, E., editorials

U

V

Veazie, F. M. gold ruby glass research 9:4:3

Visitors
Adams, L. H. 8:5:3
Andrews, A. I. 9:3:4
Birch, R. E. 9:6:3
Chesters, J. H. 9:3:4
Claypool, O. W. 6:3:2
Core, J. F. 9:2:3
Crockett, A. E. 9:3:3
Flint, E. C. 9:8:2
Heck, N. H. 8:2:4
International Union of Geodesy and Geophysics delegates 9:1:2
Kraner, H. N. 9:4:3
Leighton, T. R. 10:1:4
Mencher, E. 10:1:4
Moulton, H. 9:8:2
Nagaoka, M. 9:3:4
Newmann, F. 8:2:4
Reed, J. C. 8:7:2
Reinert, G. 9:3:4
Rhodes, E. O. 8:7:2
Rossby, C. G. 9:8:3
Stahl, I and T 9:3:4
Swainson, Commander 8:2:4
Turner, W. E. S. 8:4:3
Vilella, J. R. 8:6:3
Vollmer, L. W. 8:7:2
Weldon, W. A. 9:3:4

"Visual Aids in the Mineral Industries," E. Steidle 8:4:2,4

Vocational education, coal mining 9:8:1

"Vocational Guidance in the Mineral Industries," booklet on 8:1:2

W

Waldo, A. W.
oil sand structure study of 6:7:3
porous material, study of 7:7:2

W (Cont'd.)

War, see also Defense
minerals as factor in 10:7:3,4

"War for Minerals," E. Steidle 10:3:2

Weather Forecasting, see also Meteorology
Military uses of 10:5:3

"Weather Forecasting at Penn State," E. Steidle 9:5:2

Weyl, W.
address by 6:2:3
appointment 6:1:3; 7:1:1; 7:5:1,3
career of 6:3:3
committee appointment 10:1:2
glass, research in
color changes in 8:7:3
colored 7:7:2
gases in 8:3:1,4
melting methods 8:5:3
transmission of light through 9:2:3
phosphate research project directed by 8:5:3

"William Penn's Mineral Heritage," W. M. Myers 10:6:1-7

Wright, C. C., "Research in Coals Described" 10:4:1,2,4

X

Y

Yaklish, J. P.
prize awarded to 8:3:3
transfer to Chile 8:6:3

"Year 1938 Marked by Unusual Exhibitions of Northern Lights," H. Landsberg 8:3:1,4

Ypunkins, J. A., "Notes on the Collection and Reduction of Coal Samples" 6:1:3,4; 6:2:2

Yuster, S. T.
committee appointment 8:1:1
research studies of 6:7:3; 7:7:2

Z

Zerfoss, S.
dolomite, thermal decomposition of, studies in 8:7:3

Z (Cont'd.)

Zerfoss, S. (Cont'd.)
"Glass Technologists, Mill Executives Hold Two-Day Conference at College" 7:1:3,4

Zinc Industry 7:7:4