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PUBLICATIONS OF THE FACULTIES

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JAMES LEWIS MORRILL, B.A., LL.D., President, University of Minnesota

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WILLEM J. LUYTEN, Ph.D., Professor of Astronomy and Chairman of the Department of Astronomy

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CATHERINE B. LINDSAY, B.A., Teaching Assistant in English

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JOHN ROOD, Assistant Professor and Artist in Residence

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GEORGE A. THIEL, Ph.D., Professor of Geology and Chairman of the Department of Geology and Mineralogy

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J. M. Cork, *Radioactivity and Nuclear Physics*. *Ibid.*, 51:366. 1947.

Vladimir N. Ipatieff, *The Life of a Chemist*. *Ibid.*, 51:889. 1947.

COLLEGE OF ENGINEERING AND ARCHITECTURE

AERONAUTICAL ENGINEERING

RALPH H. UPSON, M.E., A.E., Professor of Aeronautical Engineering

"Simplifying personal plane design." *Aviation*, 45:55-59, June, 1946; 45:71-75, August, 1946; 46:62-65, May, 1947.

"Personal plane problems." *Aeronautical Engineering Review*, 8:18-24. 1946.

ARCHITECTURE

ROY C. JONES, M.S. (Arch.), Professor of Architecture, Head of the School of Architecture, and Advisory Architect to the Board of Regents

Report to the Jury on the Competition for the Design of the Proposed State Veterans Service Building (with L. Arnal). St. Paul: State Veterans Service Building Commission. October, 1946. 24 pages.

LEON ARNAL, Architecte Diplômé par le Gouvernement Français, Professor of Architecture

Report to the Jury on the Competition for the Design of the Proposed State Veterans Service Building (with R. C. Jones). St. Paul: State Veterans Service Building Commission. October, 1946. 24 pages.

HARLAN E. MCCLURE, M.Arch., Assistant Professor of Architecture

Principal architect of (1946-47)

Residence for Dr. L. I. Smith, Minneapolis, Minnesota.

Residence for Dr. and Mrs. Joseph Opie, Minneapolis, Minnesota.

Residence for Mr. and Mrs. Harlan McClure, Minneapolis, Minnesota.

Residence for Dr. and Mrs. William B. Stromme, Minneapolis, Minnesota.

Apartment house for L. E. Barton, Mobridge, South Dakota.

Principal designer of

Lake Nokomis Presbyterian Church, Minneapolis, Minnesota.

Edina Baptist Church, Edina, Minnesota.

Twenty water colors on various subjects; fourteen lithographs on architectural subjects.

ELMER E. YOUNG, Assistant Professor of Fine Arts

Exhibition of picture in the Thirty-second Annual Twin City Art Exhibit. November 1 to December 1, 1946.

Exhibition of picture in the Eightieth Annual Exhibition of the American Water Color Society in New York City. February 7 to March 2, 1947.

WINSTON A. CLOSE, M.S.(Arch.), Lecturer in Architecture and Assistant to Advisory Architect

Architect for

Hathaway House, Minneapolis, Minnesota. 1946-47 (reviewed in *Progressive Architecture*, 1947).

Beach cabin, on the St. Croix between Somerset and Osceola, Wisconsin. 1947.

CIVIL ENGINEERING

LORENZ G. STRAUB, Ph.D., C.E., Professor of Civil Engineering and Head of Department of Civil Engineering; Professor of Hydraulics and Director of the Hydraulic Laboratory

"Technological research in wartime" (presented at the May 6, 1946 meeting of the N. W. Section, ASCE). *Bulletin of the Minnesota Federation of Engineering Societies*, Vol. 31, No. 8, pp. 3-7. August, 1946.

"A Minnesotan in India." *Minnesota Alumnus*, 46:225-27. April, 1947.

Chairman, Editorial Committee, *Civil Engineering Series*. Chicago: Irwin-Farnham Publishing Company. 1946.

GEORGE J. SCHROEPPER, M.S., C.E., Professor of Civil Engineering

Twelfth Annual Report. Minneapolis-St. Paul Sanitary District. 1946-47. 87 pages.

RUSSELL C. BRINKER, M.S.(C.E.), Associate Professor of Civil Engineering

Review of D. M. Baker, *Some Thoughts on Engineering Education* in *Proceedings, A.S.C.E.*, pp. 1041-45. September, 1946.

MILES S. KERSTEN, Ph.D., Assistant Professor of Civil Engineering

"Progress report of subcommittee on methods of measuring strength of subgrade soil—Review of methods of design of flexible pavement." *Highway Research Board Proceedings*, 25:8-18. 1945.

"Subgrade moisture conditions beneath airport pavements." *Ibid.*, 25:450-62. 1945.

"Subgrade moisture conditions beneath highway and airfield pavements." *Roads and Streets*, Vol. 89, No. 10, pp. 94-96. 1946.

Laboratory Research for the Determination of the Thermal Properties of Soils. (Semiannual report.) Minneapolis: University of Minnesota Mimeograph Department. October, 1946. 18 pages.

Laboratory Research for the Determination of the Thermal Properties of Soils. (Semiannual report.) Minneapolis: University of Minnesota Mimeograph Department. February, 1947. 47 pages.

WALTER T. GRAVES, M.S.(C.E.), Instructor in Civil Engineering

Effect of the Ratio of Rivet Pitch to Rivet Diameter on the Fatigue Strength of Riveted Joints of 24 S-T Aluminum Alloy Sheet (with H. Crate and D. W. Ochiltree). National Advisory Committee for Aeronautics Technical Note 1125. 1946. 7 pages.

DRAWING AND DESCRIPTIVE GEOMETRY

BERT F. SCHUCK, B.S.(E.E.), Associate Professor of Drawing and Descriptive Geometry

Method of Constructing Various Types of Examinations. Publication of the Proceedings of the Summer School of the Drawing Division of the A.S.E.E. New York: McGraw Hill. 1947. 17 pages.

IVAN DOSEFF, B.S., Assistant Professor of Drawing and Descriptive Geometry

Portrait plaque, to be cased in bronze for Mr. Harry E. Gerrish, president of Engineering Society of the Twin Cities. 1946-47.

STEVE S. BARICH, M.A., Instructor in Drawing and Descriptive Geometry

Visual Materials and Devices That May Be Used in the Teaching of Mathematics, Including Arithmetic, Algebra and Geometry. 1946. 10 mimeographed pages.

JOHN M. SOCHA, Instructor in Drawing and Descriptive Geometry

Exhibition of oil painting, "Okinawa Gardens," at annual Minneapolis Institute of Arts Show for Twin Cities artists; purchased by the Minneapolis Institute of Arts for its permanent collection.

ELECTRICAL ENGINEERING

HENRY E. HARTIG, Ph.D., Professor of Electrical Engineering and Head of the Department of Electrical Engineering

Review of Howard C. Roberts, *Mechanical Measurement by Electrical Methods in Review of Scientific Instruments*, 18:241. April, 1947.

JOHN M. BRYANT, M.S.(E.E.), E.E., Professor Emeritus of Electrical Engineering

"Lightning recorded by airplane propeller" (with M. Newman). *Journal of Applied Physics*, 17:555-57. 1946.

PAUL A. CARTWRIGHT, B.E.E., Instructor in Electrical Engineering

Radio Interference Transients Investigation II (with F. E. Waterfall and R. M. Saunders). Lightning and Transients Research Laboratory Technical Report No. 3. 1946. 30 pages.

ROBERT M. SAUNDERS, M.S.(E.E.), Associate Scientist in Electrical Engineering

Radio Interference Transients Investigation II (with F. E. Waterfall and P. A. Cartwright). Lightning and Transients Research Laboratory Technical Report No. 3. 1946. 30 pages.

ENGINEERING EXPERIMENT STATION

FRANK B. ROWLEY, M.E., Professor of Mechanical Engineering, Head of the Department of Mechanical Engineering and Director of the Engineering Experiment Station

Vapor Resistant Coatings for Structural Insulating Board (with M. H. LaJoy and E. T. Erickson). University of Minnesota Engineering Experiment Station Bulletin No. 25. 1946. 31 pages.

Low Mean Temperature Thermal Conductivity Studies (with R. M. Lander and R. C. Jordan). University of Minnesota Engineering Experiment Station Technical Paper No. 59. January, 1947. 5 pages.

"Low mean temperature thermal conductivity studies" (with R. C. Jordan and R. M. Lander). *Refrigerating Engineering*, 53:35-39. 1947.

"Installation: Does it affect insulation?" (with C. E. Lund). *Insulation*, 4:12-14. February, 1947.

"Moisture condensation" *Circular F6.2*. University of Illinois Small Homes Council, 44:1-8. January, 1947.

"Comfort reactions of 275 workers during occupancy of air conditioned offices" (with R. C. Jordan and W. E. Snyder). *Heating, Piping and Air Conditioning*, Vol. 19, No. 6, pp. 113-16. 1947.

MILLARD H. LAJOY, M.S.(M.E.), LL.B., Associate Professor of Mechanical Engineering and Assistant Director of Engineering Experiment Station

Vapor Resistant Coatings for Structural Insulating Board (with F. B. Rowley and E. T. Erickson). University of Minnesota Engineering Experiment Station Bulletin No. 25. 1946. 31 pages.

CLARENCE E. LUND, M.S.(M.E.), Associate Professor of Mechanical Engineering

"Installation: Does it affect insulation?" (with F. B. Rowley). *Insulation*, 4:12-14. February, 1947.

EINAR T. ERICKSON, B.M.E., Research Fellow, Engineering Experiment Station

Vapor Resistant Coatings for Structural Insulating Board (with M. H. LaJoy and F. B. Rowley). University of Minnesota Engineering Experiment Station Bulletin No. 25. 1946. 31 pages.

ROBERT M. LANDER, M.S.(M.E.), Junior Scientist, Engineering Experiment Station

Low Mean Temperature Thermal Conductivity Studies (with F. B. Rowley and R. C. Jordan). University of Minnesota Engineering Experiment Station Technical Paper No. 59. January, 1947. 5 pages.

"Low mean temperature thermal conductivity studies" (with F. B. Rowley and R. C. Jordan). *Journal of the American Society of Refrigerating Engineers*, 53:35-39. 1947.

MATHEMATICS AND MECHANICS

STEFAN E. WARSCHAWSKI, Ph.D., Professor of Mathematics and Mechanics

"On the modulus of continuity of the mapping function at the boundary in conformal mapping." (Abstract.) *Bulletin of the American Mathematical Society*, 52:68. 1946.

NEAL R. AMUNDSON, Ph.D., Assistant Professor of Mathematics and Mechanics

"Application of matrices and finite difference equations to binary distillation." *Transactions of American Institute of Chemical Engineers*, 42:939-46. 1946.

"Unsymmetrically loaded orthotropic thin plates on elastic foundations." *Bulletin of the American Mathematical Society*, 53:60. 1947.

WILLIAM D. MUNRO, Ph.D., Assistant Professor of Mathematics and Mechanics

"The design of computing control systems." (Abstract.) *American Mathematical Monthly*, Vol. 54, No. 2, p. 133. 1947.

"Orthogonal trigonometric sums with auxiliary conditions." (Abstract.) *Bulletin of the American Mathematical Society*, Vol. 53, No. 1, p. 55. 1947.

HELMER G. JOHNSON, M.A., Instructor in Mathematics and Mechanics

"Weakness in the eight-year study." *School and Society*, 63:417-19. 1946.

RAOUL L. SIMON, B.A., Instructor in Mathematics and Mechanics

"Tuberculosis trends in the Navy." *Statistics of Navy Medicine*. 1946-47.

"Influence of certain factors on the incidence of tuberculosis in the Navy." *Ibid.* 1946-47.

WILLIAM A. ZIEGLER, M.A., Instructor in Mathematics and Mechanics

Minnesota Rate of Manipulation Test. (Apparatus for testing rate of work an individual is capable of doing, with his hands, fingers and arms, in both factory and office). Minneapolis: Educational Test Bureau. 1936. New York: Psychological Corporation. 1940.

MECHANICAL ENGINEERING

RICHARD C. JORDAN, Ph.D., Professor of Mechanical Engineering and Assistant Head of the Department of Mechanical Engineering

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"Comfort reactions of 275 workers during occupancy of air conditioned offices" (with F. B. Rowley and W. E. Snyder). *Heating, Piping and Air Conditioning*, Vol. 19, No. 6, pp. 113-16. 1947.

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B. H. Hopkins, *How To Apply More Know How to Writing Operations.* *Ibid.*, Vol. 2, No. 1, p. 2. 1947.

F. O. Slate, *Organization of the Technical Report.* *Ibid.*, Vol. 2, No. 1, p. 2. 1947.

M. C. Fetter, *Midwest Research Institute Catalyzes New Desire in Mid-America.* *Ibid.*, Vol. 2, No. 1, p. 3. 1947.

BURTON J. ROBERTSON, M.S.(E.E.), Professor of Mechanical Engineering

Internal Combustion Engines (with T. E. Murphy and A. Ford). (Revised.) Minneapolis: University of Minnesota Mimeograph Department. 1947. 200 pages.

AXEL B. ALGREN, M.S.(M.E.), Associate Professor of Mechanical Engineering

"Design data for a warm air floor panel with a supplementary forced air system for ventilation, cleaning, humidification and mild weather heating." *American Artisan*, Vol. 116, No. 1, pp. 141-46, 149-50, 254-56. 1947.

"House fitted to state climate." *Minneapolis Sunday Tribune*, March 30, 1947.

JAMES J. RYAN, M.S.(M.E.), Associate Professor of Mechanical Engineering

"Photoelastic models reveal weld stresses." *Welding Engineer*, Vol. 32, No. 2, pp. 46-48. 1947.

ARTHUR FORD, M.S.(M.E.), Assistant Professor of Mechanical Engineering

Internal Combustion Engines (with T. E. Murphy and A. Ford). (Revised.) Minneapolis: University of Minnesota Mimeograph Department. 1947. 200 pages.

THOMAS P. HUGHES, M.S.(Met.), Assistant Professor of Mechanical Engineering

Metals and Plastics Production and Processing. Chicago: Irwin-Farnham. 1947. 375 pages.

THOMAS E. MURPHY, M.S.(Aero.E.), Assistant Professor of Mechanical Engineering

Internal Combustion Engines (with B. J. Robertson and A. Ford). (Revised.) Minneapolis: University of Minnesota Mimeograph Department. 1947. 200 pages.

WARREN E. SNYDER, B.S.(M.E.), Instructor in Mechanical Engineering

College Algebra. A study guide for U. S. Armed Forces Institute Correspondence Course. 1947. 73 pages.

"Comfort reactions of 275 workers during occupancy of air conditioned offices" (with F. B. Rowley and R. C. Jordan). *Heating, Piping and Air Conditioning*, Vol. 19, No. 6, pp. 113-16. 1947.

KENNETH T. WHITBY, B.S. (Naval Tech.), Instructor in Mechanical Engineering

"Back yard aviation." *Minnesota Technologist*, 27:130-31, 144, 146. 1947.

SCHOOL OF CHEMISTRY

ANALYTICAL CHEMISTRY

IZAAK M. KOLTHOFF, Ph.D., Professor of Analytical Chemistry and Head of the Division of Analytical Chemistry

"The Polarography of Uranium."

"II. Polarography in strongly acid solution" (with W. E. Harris). *Journal of the American Chemical Society*, 68:1175-79. 1946.

"III. Polarography in very weakly acid, neutral or basic solution" (with W. E. Harris). *Ibid.*, 69:446-51. 1947.

"The mechanism of emulsion polymerizations. II. The effect of oxygen on the emulsion polymerization of styrene" (with W. J. Dale). *Ibid.*, 69:441-46. 1947.

"Solubilization of *p*-dimethylaminoazobenzene in soap solutions" (with W. F. Johnson). *Journal of Physical Chemistry*, 50:440-42. 1946.

"Determination of alkyl disulfides in the absence and presence of mercaptans" (with D. R. May, P. Morgan, H. A. Laitinen, and A. S. O'Brien). *Industrial and Engineering Chemistry, Analytical Edition*, 18:442-44. 1946.

"Assay of hydroquinone" (with T. S. Lee). *Ibid.*, 18:452. 1946.

"Determination of persulfate in emulsion polymerization latices" (with L. S. Guss, D. R. May, and A. I. Medalia). *Journal of Polymer Science*, 1:340-52. 1946.

"Possible reorganization of Dutch university education." *Institute of International Education News Bulletin*, 22:9-11. 1946.

"The old country revisited." *Knickerbocker Weekly*, 6:12-13. 1946.

"Determination of polystyrene in GR-S rubber" (with T. S. Lee and C. W. Carr). *Ibid.*, 1:429-33. 1946.

"Mercaptans as Promoters and Modifiers in the Emulsion Copolymerization of Butadiene and Styrene Using Potassium Persulfate as 'Catalyst'"

"I. Mercaptans as promoters" (with W. E. Harris). *Ibid.*, 2:41-48. 1947.

"II. Mercaptans as modifiers" (with W. E. Harris). *Ibid.*, 2:49-71. 1947.

"III. Calculation of molecular weights and intrinsic viscosities of polymers from mercaptan consumption data" (with W. E. Harris). *Ibid.*, 2:72-81. 1947.

"IV. Definition and calculation of modifier efficiency" (with W. E. Harris). *Ibid.*, 2:82-89. 1947.

"The use of perbenzoic acid in the analysis of compounds containing ethylenic bonds. I. Preparation and stability of solutions of perbenzoic acid" (with T. S. Lee and M. A. Mairs). *Ibid.*, 2:199-205. 1947.

"The use of perbenzoic acid in the analysis of unsaturated compounds. II. Determination of external double bonds in synthetic rubbers" (with T. S. Lee). *Ibid.*, 2:206-19. 1947.

"The use of perbenzoic acid in the analysis of unsaturated substances. III. Results of determinations of external double bonds in synthetic rubbers" (with T. S. Lee and M. A. Mairs). *Ibid.*, 2:220-28. 1947.

"The electrokinetic potentials of precipitates" (with L. H. Reyerson and K. Coad). *Journal of Physical and Colloid Chemistry*, 51:321-32. 1947.

"Studies on the aging of precipitates and coprecipitation. XXXVIII. The compressibility of silver bromide powders" (with I. Shapiro). *Ibid.*, 51:483-93. 1947.

"The use of membrane electrodes in the study of soap solutions" (with C. W. Carr and W. F. Johnson). *Ibid.*, 51:636-44. 1947.

"Studies on aging of precipitates and coprecipitation. XXXIX. Low temperature conductivity of silver bromide" (with I. Shapiro). *Journal of Chemical Physics*, 15:41-46. 1947.

Reviews of

J. Nathanson, *Science for Democracy in Journal of Physical and Colloid Chemistry*, 51:363-65. 1947.

E. Havinga, H. W. Julius, H. Veldstra, and K. C. Winkler, *Monographs on the Progress of Research in Holland During the War. Modern Development of Chemotherapy. Ibid.*, 51:366-67. 1947.

P. H. Hermans, *Monographs on the Progress of Research in Holland. Contribution to the Physics of Cellulose Fibres. Ibid.*, 51:367-68. 1947.

C. A. Jacobson, *Encyclopedia of Chemical Reactions. Ibid.*, 51:626. 1947.

"Germans apathetic, despair of making fresh start soon." *Minneapolis Star Journal*, September 5, 1946.

"Arousing dormant public opinion." *Chemical and Engineering News*, 25:907. 1947.

Editor

- Chemical Reviews*, 1946-47.
Chemical Analysis Series, 1946-47.
"Determination of alkyl disulfides in absence and presence of mercaptans" (with P. Morgan, D. R. May, H. A. Laitnen, and A. S. O'Brien). *Chemical Abstracts*, 40:5359. 1946.

ERNEST B. SANDELL, Ph.D., Professor of Analytical Chemistry

- Colorimetric Determination of Traces of Metals*. (Revised photo-offset edition.) New York: Interscience. 1946. 487 pages.
"Abundance of tungsten in igneous rocks." *American Journal of Science*, 244:643-48. 1946.
"Determination of gallium in silicate rocks." *Analytical Chemistry*, 19:63-65. 1947.
Review of J. Rosin, *Reagent Chemicals and Standards* in *Journal of Physical Chemistry*, 51:626-27. 1947.

EDWARD J. MEEHAN, Ph.D., Associate Professor of Analytical Chemistry

- "Comparison of ultraviolet absorption and chlorine analysis methods for composition of butadiene-*p*-cholostyrene copolymers" (with T. D. Parks and H. A. Laitinen). *Journal of Polymer Science*, 1:247-48. 1946.
"Composition of butadiene-styrene copolymers prepared by emulsion polymerization." *Ibid.*, 1:318-28. 1946.

THOMAS H. NORRIS, Ph.D., Assistant Professor of Analytical Chemistry

- "Chemical forms assumed by C¹⁴ produced by neutron irradiation of nitrogenous substances" (with P. E. Yankwich and G. K. Rollefson). *Journal of Chemical Physics*, 14:131-40. 1946.

WALTER E. HARRIS, Ph.D., Research Fellow in Analytical Chemistry

- "The Polarography of Uranium"
"II. Polarography in strongly acid solution" (with I. M. Kolthoff). *Journal of the American Chemical Society*, 68:1175-79. 1946.
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"Mercaptans as Promoters and Modifiers in the Emulsion Copolymerization of Butadiene and Styrene Using Potassium Persulfate as 'Catalyst'"
"I. Mercaptans as promoters" (with I. M. Kolthoff). *Journal of Polymer Science*, 2:41-48. 1947.
"II. Mercaptans as modifiers" (with I. M. Kolthoff). *Ibid.*, 2:49-71. 1947.
"III. Calculation of molecular weights and intrinsic viscosities of polymers from mercaptan consumption data" (with I. M. Kolthoff). *Ibid.*, 2:72-81. 1947.
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WARREN F. JOHNSON, B.S., Research Fellow in Analytical Chemistry

- "Solubilization of *p*-dimethylaminoazobenzene in soap solutions" (with I. M. Kolthoff). *Journal of Physical Chemistry*, 50:440-42. 1946.
"The use of membrane electrodes in the study of soap solutions" (with C. W. Carr and I. M. Kolthoff). *Journal of Physical and Colloid Chemistry*, 51:636-44. 1947.

THOMAS S. LEE, B.S., Research Fellow in Analytical Chemistry

- "Assay of hydroquinone" (with I. M. Kolthoff). *Industrial and Engineering Chemistry, Analytical Edition*, 18:452. 1946.
"Determination of polystyrene in GR-S rubber" (with I. M. Kolthoff and C. W. Carr). *Journal of Polymer Science*, 1:429-33. 1946.
"The Use of Perbenzoic Acid in the Analysis of Compounds Containing Ethylenic Bonds"
"I. Preparation and stability of solutions of perbenzoic acid" (with I. M. Kolthoff and M. A. Mairs). *Ibid.*, 2:199-205. 1947.
"II. Determination of external double bonds in synthetic rubbers" (with I. M. Kolthoff). *Ibid.*, 2:206-19. 1947.
"III. Results of determinations of external double bonds in synthetic rubbers" (with I. M. Kolthoff and M. A. Mairs). *Ibid.*, 2:220-28. 1947.

MARY A. MAIRS, B.S., Research Fellow in Analytical Chemistry

"The use of perbenzoic acid in the analysis of compounds containing ethylenic bonds. I. Preparation and stability of solutions of perbenzoic acid" (with T. S. Lee and I. M. Kolthoff). *Journal of Polymer Science*, 2:199-205. 1947.

"The use of perbenzoic acid in the analysis of unsaturated substances. III. Results of determinations of external double bonds in synthetic rubbers" (with T. S. Lee and I. M. Kolthoff). *Ibid.*, 2:220-28. 1947.

AVROM I. MEDALIA, B.S., Research Fellow in Analytical Chemistry

"Determination of persulfate in emulsion polymerization latices" (with L. S. Guss, D. R. May, and I. M. Kolthoff). *Journal of Polymer Science*, 1:340-52. 1946.

CHEMICAL ENGINEERING

CHARLES A. MANN, Ph.D., Professor of Chemical Engineering and Chief of the Division of Chemical Engineering

Review of M. J. Shoemaker, *Applications of Ion Exchange in Proceedings of the Seventh Annual Water Conference, Engineers' Society of Western Pennsylvania*, pages 172-74. 1947.

ARTHUR E. STOPPEL, Ph.D., Associate Professor of Chemical Engineering

"Calculation of number of theoretical plates for rectifying column." *Industrial and Engineering Chemistry*, 38:1271-72. 1946.

JOHN H. BALLARD, B.Ch.E., Teaching Assistant in Chemical Engineering

"Catalytic desulfurization of high-sulfur stocks by the cobalt molybdate process" (with C. Berg, W. E. Bradley, R. I. Stirton, R. G. Fairchild, C. B. Leffert). *Transactions of the American Institute of Chemical Engineers*, 43:1-11. 1947.

INORGANIC CHEMISTRY

LLOYD H. REYERSON, Ph.D., Professor of Inorganic Chemistry and Assistant Dean of the School of Chemistry

"How badly have we blundered?" *Chemical and Engineering News*, 24:2184-87. 1946.

"Let's have a two-way street." *Ibid.*, 24:3035. 1946.

"The electrokinetic potentials of precipitates" (with I. M. Kolthoff and K. Coad). *Journal of Physical Chemistry*, 51:321-32. 1947.

HERVEY H. BARBER, Ph.D., Associate Professor of Inorganic Chemistry

Semimicro Qualitative Analysis. (Revised.) Dubuque: William A. Brown Company. 1946. 391 pages.

OTTO H. JOHNSON, Ph.D., Assistant Professor of Inorganic Chemistry

"Interactions between proteins and azasulfonamides" (with I. M. Klatz and J. M. Longfellow). *Science*, 104:264. 1946.

WILLIAM H. FLETCHER, B.S., Teaching Assistant in Inorganic Chemistry

"Ionization constants of some weak acids in aqueous tertiary butyl alcohol." *Journal of the American Chemical Society*, 68:2726. 1946.

PERRY MORGAN, B.Ch., Teaching Assistant in Inorganic Chemistry

"Determination of alkyl disulfides in absence and presence of mercaptans" (with I. M. Kolthoff, D. R. May, H. A. Laitinen, and A. S. O'Brien). *Industrial and Engineering Chemistry, Analytical Edition*, 18:442-44. 1946.

"Determination of alkyl disulfides in absence and presence of mercaptans" (with I. M. Kolthoff, D. R. May, H. A. Laitinen, and A. S. O'Brien). *Chemical Abstracts*, 40:5359. 1946.

EDGAR ROGIER, B.S., Teaching Assistant in Inorganic Chemistry

"The vapor-phase chlorination of aliphatic ketones" (with N. Rabjohn). *Journal of Organic Chemistry*, 11:781-87. 1946.

ORGANIC CHEMISTRY

LEE I. SMITH, Ph.D., Professor of Organic Chemistry and Chief of the Division of Organic Chemistry

"A laboratory ozonizer" (with F. L. Greenwood and D. Hudrlik). Pages 63-76 in *Organic Syntheses*, Vol. 26. New York: Wiley and Sons. 1946.

"Mutual responsibilities of scientists and industry." *Chemical and Engineering News*, 24:3342-46. 1946.

Patents

"Chemical products and methods of preparing same" (with W. B. Renfrow). U. S. Patent 2,407,726. September 17, 1946. (Ser. No. 405,796.)

"Chemical processes" (with H. E. Ungnade). U. S. Patent 2,411,942. December 3, 1946. (Ser. No. 426,324.)

"Manufacture of 2,6-dimethylheptanoic acid" (with G. F. Rouault) U. S. Patent 2,417,220. March 11, 1947. (Ser. No. 526,126.)

"Long chain aliphatic halides and method of preparing same" (with J. A. Sprung). U. S. Patent 2,421,090. May 27, 1947. (Ser. No. 453,281.)

RICHARD T. ARNOLD, Ph.D., Professor of Organic Chemistry

"The synthesis of some chloromethoxyquinolines" (with W. M. Lauer, B. Tiffany and J. Tinker). *Journal of the American Chemical Society*, 68:1268. 1946.

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"Some derivatives of 8-aminoquinoline" (with C. Rondestvedt, W. M. Lauer, N. L. Drake, J. Van Hook, and J. Tinker). *Ibid.*, 68:1546. 1946.

"Synthesis of 6-phenoxy-8-(3'-diethylaminopropylamino)-quinoline" (with W. M. Lauer, B. Tiffany, and C. O. Wilson). *Ibid.*, 68:1548. 1946.

"8-(3-diethylamino-2-hydroxypropylamino)-5,6-dimethoxyquinoline and some of its homologs" (with W. M. Lauer and R. E. Buckles). *Ibid.*, 68:1552. 1946.

"Steric effect of methylene groups. II" (with Estelle Rondestvedt). *Ibid.*, 68:2176. 1946.

C. FREDERICK KOELSCH, Ph.D., Professor of Organic Chemistry

Review of Paul Karrer, *Organic Chemistry in Journal of Physical Chemistry*, 51:627. 1947.

WALTER M. LAUER, Ph.D., Professor of Organic Chemistry

"The synthesis of some chloromethoxyquinolines" (with R. T. Arnold, B. Tiffany, and J. Tinker). *Journal of the American Chemical Society*, 68:1268. 1946.

"A study of plasmochin and the occurrence of rearrangements in the preparation of certain plasmochin analogs" (with R. C. Elderfield, L. C. Craig, R. T. Arnold, W. J. Gensler, J. D. Head, T. H. Bemby, H. R. Mighton, J. Tinker, Jean Galbreath, Ann D. Holley, L. Goldman, J. T. Maynard, and N. Picus). *Ibid.*, 68:1516. 1946.

"Some derivatives of 8-aminoquinoline" (with C. Rondestvedt, R. T. Arnold, N. L. Drake, J. Van Hook, and J. Tinker). *Ibid.*, 68:1546. 1946.

"Synthesis of 6-phenoxy-8-(3'-diethylaminopropylamino)-quinoline" (with R. T. Arnold, B. Tiffany, and C. O. Wilson). *Ibid.*, 68:1548. 1946.

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Contributor to *Northwest School Project News*, 1946-47; *Aggie Rouser*, 1946-47.

Contributor of weekly news items to seventy northwestern Minnesota newspapers on the work of the Northwest School and Experiment Station, 1946-47.

Editor, *Northwest School News*, 1946-47.

ERWIN N. REIERSGORD, M.S., Assistant Professor of Mathematics and Registrar

Regular contributor to *Northwest School Project News*. July-September, 1946 and April-June, 1947; also contributor to *Northwest School News*. 1946-47.

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HERSCHEL H. LYSAKER, B.A., Instructor, Coach, and Home Project Supervisor

Editor and regular contributor to *Northwest School Project News*. July-September, 1946 and April-June, 1947.

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THEODORE H. FENSKE, M.S., Professor and Superintendent of the West Central School and Experiment Station

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Editor

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ADMINISTRATION

HAROLD S. DIEHL, M.D., M.A., D.Sc., Dean of the Medical Sciences and Professor of Public Health

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RUBY M. ENGSTROM, M.S., Teaching Assistant in Anatomy

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ROBERT A. GREEN, M.A., M.D., Professor of Bacteriology and Immunology and Head of the Department of Bacteriology and Immunology

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