21st ANNUAL REPORT

To The Chemical Engineering Alumni
The Ohio State University
COVER PAGE

The cover page is a photograph of some members of the staff and the 1969 graduating class.

First Row (Left to Right)
Kerscher, F. C.
Strong, A. W.
Berggraff, S.
Frazier, B., Secy.
Koffolt, J. H., Prof.
Kasim, (Owotomo) M., Mrs.
Turner, S., Secy.
Barrick, S.
Green, L. H.

Second Row (Left to Right)
Poisset, R. A.
Newhouse, H. A.
Youmans, D.
Sylverson, A., Prof.
Reese, D.
Smith, D. E.
Sebert, J. W.
Michl, P. R.

Third Row (Left to Right)
Brodkey, R. S., Prof.
Lynn, R. E., Prof.
Sweeney, T. L., Prof.
Nazer, T.
Kreglewski, A. J., Prof.
Geankoplis, C. J., Prof.
Hershey, H. C., Prof.
Goldwein, N.

Fourth Row (Left to Right)
Svanks, K., Prof.
Smith, E. E., Prof.
Stolk, R. D.
Kuon, J. F.
Lull, D.
Hafeez, A.
Haberkost, R. D.
McMillan, M. L.
Key, W. B., Prof.

Fifth Row (Left to Right)
Tanner, J. B., Adm. Asst.
Kukla, M. B., Mechanic
Flerchinger, J. M.
Harline, R. F.
Pak, S. C.
Baxter, R.
Salladay, J. M.
Walters, D. J.
Lindsay, G. A.
Fergusson, W.
Doub, T.
Linak, R. T.
21st ANNUAL REPORT
To The Chemical Engineering Alumni
The Ohio State University
Greetings from the Chemical Engineering Staff:

I am glad to have this opportunity to express our appreciation for your interest and help and to review the major events of the Department during the past year. The photograph on the cover of the Class of 1968 is appropriate at this time because it is the twentieth class to graduate while Joe Koffolt was chairman. The Department has been fortunate to have had two great leaders – Withrow and Koffolt. It is going to be a real challenge to try to measure up to their standards; I welcome the opportunity and I know I can count on your help from time to time.

The high light of our ACE Day program last year was the banquet honoring Joe. The fine attendance by alumni and friends was indeed heartwarming.

It was a pleasure to meet so many of you at the Los Angeles Alumni Luncheon, some of you for the first time. This was a splendid meeting – thanks to Don Arnold, Len Harris, and Mary Garrett who made the arrangements. A fine news release on this meeting was prepared by E. P. Arthur and is included later in this report. We are very proud and pleased that Joe was presented the Warren K. Lewis Award by AIChE; we know of no one more deserving. We are also proud of our two 1968 AIChE Student Contest Problem winners - Bill Ferguson and John Salladay. They took part in a student workshop session on the problem and were presented awards at the L.A. meeting – Bill, Second Place and John, Honorable Mention. Thanks to du Pont and Dow Chemical For making it possible for them to attend and represent O.S.U. at this national event.

Since his retirement from the Chairmanship last July 1, Joe continues to handle our placement work and to teach the courses that he has offered in the past. He welcomes being relieved of the administrative responsibilities and is looking forward to renewing his research in azeotropic and extractive distillation. The University has a centennial celebration next year and each department has been asked to prepare a history of its development. Joe is doing this for Chemical Engineering and he may contact some of you for information. He has graciously consented to compile the annual alumni report again this year, as he has done for so many years and for which we are most grateful.

Last year Dr. R. Emerson Lynn, Jr. joined us to start the Polymer Engineering program and this is well on its way. Last fall Dr. Edward J. Freeh (B.S., University of Dayton; M.S., MIT; Ph.D., Ohio State, 1958) joined our staff to develop courses and research in process dynamics and control, mathematical modeling and simulation. Ed and Emy are joining forces to develop a program in mathematical modeling and control of polymer engineering operations. We have been offered an extrusion line from Sinclair-Koppers (thanks to Dick Saylor, '52) and we are negotiating for additional experimental polymer processing equipment as well as a process control computer. Professor Bredkey was chairman of a session and presented two papers at The 5th International Congress on Rheology, Kyoto, Japan in October 1968. Professor Slider who directs our Petroleum Engineering program, offered a short course last summer in "Fluid Flow and Displacement in Petroleum Reservoirs" which was very well received; two similar courses
will be offered this summer. Professor Kay along with Professor Aleksander Kreglewski (Visiting Associate Professor in our department) have been doing some excellent research on new methods for estimating physical properties of mixtures, and they hope to be able to announce some important results in the near future. Professor Hershey spent last summer with the American Oil Company in Whiting, Indiana and has made good progress in developing new courses in the fields of optimization and application of statistics to experimental design; one of his interesting research projects deals with drag reduction in the flow of fluids. Dr. Geankoplis continues his research in mass transfer and spent last summer with General Mills in Minneapolis. Dr. Smith has taken over our nuclear engineering program along with his many other duties in sponsored research, including acid mine drainage in the state of Ohio. Ed was promoted to the rank of full professor last year. Dr. Svanks continues his close association with Engineering Experiment Station research. Professor Haering has taken over the graduate work in reaction kinetics and spent his quarter off with Procter & Gamble in Cincinnati. Professor Sweeney is developing our air pollution program as well as continuing his interest in heat transfer. He spent last summer at the E.I. DuPont Plant in Circleville. Professor Sheets has devoted many years to research on water pollution control. Recently, a laboratory in the Water Resources Center on our campus was named in his honor.

Professors Brodkey, Geankoplis, Hershey, and Sweeney are co-authoring a textbook tentatively entitled "Transport Phenomena" which is to be used at the undergraduate level. These men have done a commendable job of teaching in this field, and I am sure the textbook will be equally good; I expect this to be an important contribution to Chemical Engineering education.

As mentioned in the report last year, the College of Engineering has adopted a new four-year program for the Bachelor's degree. We have been busy organizing programs and courses to make the change. Jim Tanner, our administrative assistant, has done an outstanding job in handling the many details connected with this and other departmental functions.

A very pressing problem for the immediate future is that of maintaining our graduate enrollment for next year. Students are no longer deferred from military service for graduate study. We have a few returning from industry and this may become a trend for the future. The undergraduate enrollment remains nearly constant - but too low. The College of Engineering and our department have many programs underway to encourage high school students to take engineering. Your assistance in this mission would be very helpful.

On behalf of the Chemical Engineering staff. I want to emphasize how much we appreciate the most generous support you have provided through the Chemical Engineering Equipment Development Fund. This assistance provides that "extra" force at the right time that makes $2 + 2 = 5$. The first Dr. James R. Withrow Memorial Scholarship award was made this year to Terry Grob, a fourth year student in chemical engineering. I would like to bring to your attention that a new fund has been initiated, "The Joseph H. Koffolt Undergraduate Scholarship Award in Chemical Engineering"; the interest from the fund will support a scholarship in the beginning and we sincerely hope that the principle will grow sufficiently to support a fellowship and eventually a Professorship or Chair in Chemical Engineering in Joe's honor. Should you wish to contribute to one or more of these funds, I will submit the following information to simplify the procedures for you and to assure placement of the gift in the proper fund.
The Ohio State University Development Fund

Project Name | Development Project Number
---|---
1. Joseph H. Koffolt Undergraduate Scholarship Award in Chemical Engineering Fund | 2427
2. Dr. James R. Withrow Memorial Scholarship Fund | 2398
3. Department of Chemical engineering Equipment Fund | 5659

We are, indeed, proud of the achievements of our alumni, and I want to encourage you to keep us informed of promotions, honors or awards that are granted to you. This information is of value to us for personal reasons (one of the greatest rewards a teacher receives is to learn of successes of former students); it is also to the department's credit to have such distinguished alumni group.

The 1969 Annual Conference for Engineers is scheduled for Friday, May 23. We look forward to this occasion and hope that many of you will be able to attend.

Best wishes from all of us on the Chemical Engineering staff.

Sincerely,

[Signature]

Aldrich Syverson
Dear Jewels:

This letter supplements Dr. Syverson's letter which is given in this report. It always makes me feel so good to write all of you. Although in many cases some are very far away. In going over the mailing list brings so many to mind.

I am sorry that this year I was unable to send you greetings at Christmas time. I did get some out, but I still have several hundred cards which are still in the original box. I went down with the Garden type variety of the flu and (American) just before Christmas. This put a halt to addressing Christmas cards. I had hoped that I could send out New Year's cards, but I went down with the Oriental flu which knocked me out for over five weeks. But in this report I can wish all of you best wishes for a very successful and Happy 1969.

I do hope that you come and visit with us on

ACE DAY - MAY 23, 1969

Last year we broke all records this is evidenced by the photographs given in this report. The class of 1943 broke all records.

I am enjoying my retirement as department chairman. My successor, Dr. Syverson, is doing an A-1 job. We had hoped to spend one or two months in Florida but never made it with the flu, overdosage of high blood pressure pills, and a backlog of work in this transition. I did not care to go away. I hope to be able to do so next year (God be willing).

THE CENTENNIAL YEAR CELEBRATION - THE OHIO STATE UNIVERSITY

The Ohio State University will celebrate its Centennial Celebration in 1970. Each department has been requested to appoint someone to write a history of their particular department. I have been selected to do this for Chemical Engineering.

In going over the photographs I found none of our laboratories in the "Black Hole of Calcutta". This was located in the basement of what is now Derby Hall, and which at that time was known as the Chemistry Building. I have written to the living members of the classes 1906 to 1925 asking them to send me any photographs they might have of the "Black Hole" lab.

In 1925 Chemical Engineering was split off from Chemistry and was made a separate department. The laboratories were moved to the southeast corner of McPherson. Chemical Laboratories which at that time was known as the new Chemistry Building. It was named after McPherson after his death in the 1940's. The late Dean MacQuigg dubbed these quarters as the "Snake Pit". In 1959 Chemical Engineering moved into its present quarters. We have ample photographs of the equipment in McPherson and our present building.

I would also be interested in inspection trip photographs for the same period of time 1906 to 1930. All of these photographs will be returned.
We would appreciate it if you will fill out the enclosed data card. I hope we get 100% response to this. The data obtained will be classified by companies and published in the history of the department. This was done in 1958 and has been very useful. Your cooperation will be very much appreciated. We will be happy to send you a copy if you request it.

MAIL THESE DATA CARDS AS SOON AS YOU RECEIVE THIS REPORT

ACE DAY - 1968

All attendance records were broken in the 1968 ACE Day held May 24, 1968. It was on this day I started to "sing my swan song" as department chairman. All three hundred in attendance in the afternoon session which was held in the Unit Operations Laboratory. Our large lecture room seats about 120. Two hundred and seven stayed over for the buffet dinner at the Ohio Stater Inn. Every table was taken by our group.

I will always be grateful for the turnout, presents, and the citation received from many places,

The Standard Oil Company (Ohio) made a contribution of $275.00 to pay for the luncheon of some 100 third, fourth and fifth year students on ACE Day. We appreciated this very much and thank both Mr. Charles E. Spahr, President of Sohio and Larry Fafllick for this.

I am very proud of a perpetual motion clock which was given me by Union Carbide Corporation, Chemicals and Plastics Division. The presentation was held in my office and the photograph is shown in this report by the group from Carbide. There is a name plate engraved in this clock "Presented to Joseph H. Koffolt in recognition of invaluable contributions to the Chemical Industry. Union Carbide Corporation, Chemicals and Plastics Division, May, 1968."

The following citation was presented by the Council of the American Institute of Chemical Engineers which read as follows:

"In grateful appreciation for his lifelong devotion to Chemical Engineering, for his skill and patience as a leader and teacher, for his exemplary adherence to the highest ideals of a professional calling, the Council of the American Institute of Chemical Engineers offers this Testimonial to the indebtedness of the Profession to a great Chemical Engineer." Signed by members of council.

Max S. Peters, President
H. D. Guthrie, Vice President
Theodore A. Bird, Past President
George E. Holbrook, Treasurer
F. J. Van Antwerpen, Secretary
Frank C. Croxton, Director
E. B. Christiansen, Director
J. B. Martin, Director

T. W. Tomkowitz, Director
George H. Cummings, Director
T. Weaver, Director
Arthur L. Conn, Director
John L. Olsen, Director
Irving Leibson, Director
J. W. Westwater, Director
William W. Ellis, Director

J. J. Martin, Director

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Another citation from the Central Ohio Section American Institute of Chemical Engineers confirmed upon me the permanent title of "honorary chairman of the Central Ohio Section American Institute of Chemical Engineers*.

Warren K. Lewis award for distinguished contributions to Chemical Engineering education. As stated by Dr. Syverson, the Warren K. Lewis award was given me last December at the Los Angeles meeting of the A.I.Ch.E. This award consisted of $2,000 all expense paid trip to Los Angeles to receive the award and the following citation: "For his inspiring and pervasive influence on Chemical Engineering through the many students who have drawn their perception of the profession, their skills, and their devotion from his exemplary scholarship, teaching, and humanity.

I felt it a great honor to receive this award as it put us in the major leagues of Chemical Engineering education. Previous recipients of the Warren K. Lewis Award were Barnett F. Dodge (Yale), Olaf A. Hougen (Wisconsin), Edwin F. Gilliland (M.I.T.), Richard H. Wilhelm (Princeton) (deceased), Donald L. Katz (U. of Michigan).

*Dr. Dan Duncan Note

ALUMNI MEETING OF OHIO STATE CHEMICAL ENGINEERS – LOS ANGELES, CALIFORNIA

The following is an account of Chemical Engineering Alumni, Tuesday, December 3, 1968. This was written by Edwin P. Arthur, B.Ch.E. '22 who resides at 5110 Las Paldas, California 92632.

"Ohio State was well represented at the December (1968) meeting of the American Institute of Chemical Engineers. Some forty six University alumni attended a luncheon to become acquainted with Dr. Aldrich Syverson, recently named Chairman of the Department of Chemical Engineering. A wide spectrum of the chemical industry was shown by those graduates attending. Dr. Joseph H. Koffolt, retired Department Chairman, introduced each one and recounted some interesting highlights from his career; without notes and very little prompting. It was quite a remarkable feat and illustrates the warm personal feeling for his students cultivated by Dr. Koffolt in his many years at Ohio State. Ohio State's Chemical Engineers often refer to themselves as "jewels" General agreement to "Joe" as one of the most precious "stones" of all!"

"Dr Koffolt was honored at the American Institute of Chemical Engineers Meeting with the Warren K. Lewis Award. The many complimentary remarks illustrated the achievement of this well loved teacher and mentor for so many who came under his influence at Ohio State."

The jewel nickname was actually an invention of some unknown student of the late Dr. James R. Withrow, Department Founder. It's an oblique reference to the poverty-stricken Cornelia, a Roman Matron, who pointed to her children when asked about her lack of jewelry. Ohio State can certainly thank Dr. Koffolt for his efforts on so many "diamonds in the rough" and take some share of pride in the sparkling success of so many alumni in Chemical Engineering.

With kindest personal regards. Come back May 23 and be sure to fill out the card and send it in.

\[Signature\]
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<td>AUTUMN</td>
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<td>WINTER</td>
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<td>Chem 122 (General Chemistry).</td>
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<td>Engr. Graphics 110 (General Engr. Graphics)</td>
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<td>Math 152 (Calculus)</td>
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<td>Physics 131 (Particles and Motion).</td>
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<td>Chem E 401 (Principles II).</td>
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<td>Math 255 (Differential Equations)</td>
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<td>Physics 132 (Waves and Quanta).</td>
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### Third Year

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<td>Chem E 521 (Transport Processes II)</td>
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<td>Engr Mech 215 (Statics and Strength of Materials)</td>
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<td>Math 512 (Fourier Series and Boundary Value Problems)</td>
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<td>Chem E 608 (Thermodynamics I)</td>
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<td>Spring</td>
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<td>Chem E 612 (Operations)</td>
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<td>Chem E 685 (Inspection Trip)</td>
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<td>Autumn</td>
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<td>Chem E 760 (Economy)</td>
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### Footnotes:

1. A student who starts with Math 150 will finish Math 255 during Winter Quarter, Second Year and must schedule the 5 hours of Basic Education Requirement at some later time convenient to the student's schedule.

2. The Technical Elective Program will be arranged by the student in consultation with his faculty adviser. A total of 18-credit hours of technical electives will be required and will be arranged with emphasis in one of the following technical areas:
a. Advanced Engineering and Science  
b. Environmental Engineering  
c. Nuclear Engineering  
d. Optimization and Advanced Mathematical Methods  
e. Petroleum Reservoir Engineering  
f. Polymer Engineering  
g. Process Analysis and Design  
h. Process Dynamics and Simulation  

In order to provide some broadening in technical fields, at least 5 credit hours of work in the Technical Elective Program will be taken outside the Department, preferably in other areas of engineering or in the basic sciences. The Basic Education Requirement of 30-credit hours will also be considered in the total elective program. Selection and scheduling will be accomplished with the help of the student's adviser.

3. The Inspection Trip is conducted in the period between Winter and Spring Quarters. Students will register for Chem P 685 during Spring Quarter registration.
THE OHIO STATE UNIVERSITY
DEPARTMENT OF CHEMICAL ENGINEERING

March 26, 1969

SALARY OFFERS FOR 1968-1969 (DATA INCOMPLETE - AN UP-TO-DATE LISTING WILL BE AVAILABLE JUNE 15, 1969)

Underlined salary offer accepted.

BACHELOR OF CHEMICAL ENGINEERING (5 years)

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COMBINED BACHELOR OF CHEMICAL ENGINEERING AND MASTER OF SCIENCE

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MASTER OF SCIENCE

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MASTER OF SCIENCE

13. To Peru
14. To Puerto Rico
15. 900, 950, 900, 905, 950, 925, 925, 940, 960, 949, 975, 1000, 925, 950
16. To India
17. To Peru
18. 950, 915, 920, 925
19. 10, 154
20. 900, 970, 900, 900, 950, 900, 960, 900, 950, 970
21. 950, 915, 940

DOCTOR OF PHILOSOPHY

1. 1225, 1280, 1200, 1225, 1233, 1104, 1225, 1230, 1280, 1225, 1280, 1225, 1225, 1280
2. 1325, 1320, 1320, 1300, 1305, 1320, 1325, 1355, 1400
3. University of Kanpur, Kanpur, India
4. To Sudan
5. 1260, 1260, 1260, 1240, 1240, 1240, 1240, 1200, 1276, 1250
6. 1285, 1150, 1285, 1250, 1200
7. 1175, 1200, 1225, 1200, 1225, 1226
8. 1100, 1225, 1100, 1100, 1100, 1125, 1050, 1125, 1100
9. 1300, 1320, 1325
10. To Greece
11. 1250
12. 1280, 1275, 1275, 1300, 1300, 1300, 1300, 1300, 1290, 1200
Laurence C. Gerckens, is head of the division of city and regional planning within the School of Architecture, a part of the Ohio State University's College of Engineering. A native of New Jersey, he received a Certificate in Art (with an award for outstanding academic achievement) from Cooper Union, New York, in 1954. From the University of Cincinnati, in 1956, he received the bachelor of science degree in architecture. He was awarded the master of regional planning degree from Cornell in 1958. He has worked as a site development and planning consultant in Bozeman, Montana, Tempe, Arizona, and Columbus, Ohio. He has taught at Montana State College and Arizona State University. He joined the Ohio State University faculty in 1963. He has written several papers, performed research, and is a frequent public speaker and lecturer. A past director of the Columbus section of the American Institute of Planners, he is currently president of the Ohio Valley Chapter of that group. He is a member of numerous local and regional planning organizations.

Dr. William T. Morris, professor of industrial engineering at Ohio State University, is an honored teacher and prolific author. Born in Concord, New Hampshire, he received the bachelor of science degree from the Massachusetts Institute of Technology in 1950, the master of science degree from Ohio State University in 1953 and the doctorate degree from Ohio State in 1956. Prior to joining the Ohio State faculty in 1954, he was research and development officer for the U.S. Air Force at Wright-Patterson Air Force Base. For the American Brake Shoe Company, New York, he served as commercial and market researcher, sales analyst, and new product specialist. His book, "Management Science in Action," was chosen by the Academy of Management and the McKinsey Foundation as one of the five outstanding books of 1963. Also among his awards are the Ohio State University Alumni Award for Distinguished Teaching, presented in 1965, and the Charles E. MacQuigg Award for Teaching Excellence, presented in 1967. He is author of eight books and author or co-author of more than a dozen papers.
THE OHIO STATE UNIVERSITY
DEPARTMENT OF CHEMICAL ENGINEERING

1968-1969 LIST OF STAFF MEMBERS, FELLOWS, SCHOLARS, RESEARCH ASSISTANTS

PROFESSORS
Aldrich Syverson, Chr.
Robert S. Brodkey
Edward J. Freeh
Christie J. Geankoplis
Webster B. Kay
Joseph H. Koffolt
Edwin E. Smith

ASSOCIATE PROFESSORS
Waldron D. Sheets
Hartzel C. Slider
Thomas L. Sweeney

ALCOA PROFESSORSHIP
Ralph E. Lynn

ADJUNCT ASSOCIATE PROFESSORS
Robert L. Bates
John S. Eckert
John B. Martin

VISITING ASSOCIATE PROFESSOR
Aleksander J. Kreglewski

ASSISTANT PROFESSORS
Edwin R. Haering
Harry C. Hershey
Karlis Syvanks

TEACHING ASSOCIATES
Charles N. Carpenter
Dean H. Reber

TEACHING ASSISTANTS
Pete N. Bartram
Rosa Uy

ADMINISTRATIVE ASSISTANT
James B. Tanner

SECRETARY
Betty Frazier

STENOGRAPHERS
Nancy Bole
Jane Sullivan

TECHNICIAN
Michael B. Kukla

MECHANIC
Keldon Latham

FELLOWSHIPS
1. American Oil -
   Richard D. Stolk
2. Diamond Shamrock -
   Dean H. Reber
3. Esso Research and
   Engr. - Michael C.
   Rominger
4. Lubrizol Fellow -
   John C. Reindl
5. National Science Found. -
   John H. Becher
   Thomas W. Doub, Jr.
   Paul D. Jachimiak
6. NASA - Michael McMillan
7. Procter and Gamble -
   David M. Koenig
8. Louis A & Lucille Roberts
   Memorial - Stavros Mychas
9. Union Carbide Corp.
   Wayne R. Fontaine
10. University Dissertation
    Fellow - Kiu H. Lee

SCHOLARSHIPS (contd.)
12. Union Oil Co. -
    Jay A. Kaplan
13. Universal Oil Products -
    Michael S. Lerch
    John W. Toussaint

RESEARCH ASSOCIATES
Emil Medniss
Paul Smith

GRADUATE RESEARCH ASSOCIATE
Arthur H. Morth

GRADUATE RESEARCH ASSISTANT
William E. Ferguson

GRADUATE RESEARCH ASSOCIATE
RESEARCH FOUNDATION
Thomas Coffey
Miss Mamata Dutta
Sung Chun Pak
Anandha Rao
Kyral Wylie

A I D FELLOW
C G Guttman
J F Kuon
PROGRAM

The Sixteenth Annual Conference for Engineers
and
The Fortieth Annual Homecoming of the Department of Chemical Engineering

MORNING SESSION

8:30 REGISTRATION and tours of facilities, Hitchcock Hall Lobby
2070 Neil Avenue (at Woodruff Avenue)

9:30 MORNING SESSION (Hitchcock Hall Auditorium) Presiding Harold A. Bolz,
Dean, College of Engineering

"The Design Professions and Urban Development", Laurence C. Gerckens,
Associate Professor of City and Regional Planning, School of Architecture,
The Ohio State University

Presentation of Texnikoi Outstanding Alumnus Award

"Science, Intuition, and Management Decisions", Dr. William T. Morris
Prof. of Industrial Engineering, The Ohio State University

LUNCHEON SESSION

12:00 LUNCHEON SESSION, Ohio Union Ballrooms, Presiding - Marion L. Smith,
Associate Dean, College of Engineering

Recognition of Alumni Anniversary - Classes of 1919 and 1944

Recognition of "Engineering Honor Students"

Presentation of the "DISTINGUISHED ALUMNUS" Awards

Presentation of Benjamin G. Lamme Medal

An Alumni Viewpoint, J. Wesley Leas, General Manager
Valley Forge Operations, Control Data Corporation, Norristown,
Pennsylvania and College Representative to Alumni Advisory Board

DEPARTMENTAL SESSIONS

Departmental of Chemical Engineering, Chemical Engineering Building, Rm. 207

2:00 Welcome to Alumni and Guests - Aldrich Syverson, Chairman

Introduction of Anniversary Classes - Joseph H. Koffolt

Introducing the Golden Anniversary Class of 1919

Living
Walter M. Krieger, James Thomas Robson, Melvin Edwin Schulz,
Chester McKinley Wolcott, Charles Newton Ward

Deceased
Howard Foster Anders, Harold R. Nicklaus, John Mouk Ort, Edward O'Rourke
J. G. Ralston, Hobart William Seyler
Latest Department Research Programs:

Polymers - Dr. R. Emerson Lynn

Process Control - Dr. Edward J. Freeh

Those who wish to socialize may do so in the Unit Operations laboratory
Room 117 where refreshments will be available until 5:00 p.m.

Informal Research Seminars:

Adsorption and Catalysis - Dr. Aldrich Sverson Room 423

Critical Properties of Liquids - Dr. Webster B. Kay Room 436

Problems of Fluid Dynamics in Chemical Engineering, Mixing and
Turbulence, Rheology, Two-Phase Flow - Room 306
Dr. Robert S. Brodkey

Mathematical Modeling, Process Dynamics and Control - Room 333A
Dr. Edward J. Freeh

Mass Transport Phenomena of Liquids and Gases in Heterogeneous Media
Dr. Christie J. Geankoplis Room 333B

Polymer Research and Instruction Program - Room 421B
Dr. R. Emerson Lynn

Coal Research, Petroleum Refining Research, Reaction Mechanism Studies,
Development of Analytical Methods, Nuclear Chemical Engineering
Dr. Edwin E. Smith and Dr. Karlis Svanks - Room 103 and 407

Drag Reduction - Dr. Harry C. Hershey Room 321B

Air Pollution, Heat Transfer - Dr. Thomas L. Sweeney Room 435A

Professor Waldron D. Sheets

Miscible Displacement in Petroleum Reservoirs - Room 335A and Room 425
Professor H. C. Slider

Kinetics and Catalysis - Room 335B Dr Edwin R. Haering

Social Hour - Unit Operations Lab, Room 117

Anniversary Class Reunions, Ohio Stater Inn, East Woodruff and North High
FELLOWSHIPS, SCHOLARSHIPS, GRANTS-IN-AID AND OTHER CONTRIBUTIONS TO THE CHEMICAL ENGINEERING DEPARTMENT

Words cannot express my thanks for the generous contributions to Chemical Engineering education made by the many companies and agencies listed below. Without their help, it would be impossible to have a graduate program. Our research would still be in the Bunsen hydrometer stage. The undergraduate scholarships have helped many worthy students, especially those on a combined program where they have a laboratory on the campus the first five weeks between the summer and autumn quarters and then an extra quarter to complete their research. These are indicated in the table below.

FELLOWSHIPS
1. American Oil Foundation
2. Dow Chemical Company
3. Diamond Shamrock Company
4. Koppers Company Teaching Fellowship
5. Shell Companies Foundation
6. Union Carbide Corporation
7. Lubrizol Corporation
8. Procter and Gamble Company
9. Ohio State University
10. National Science Foundation
11. Louis A. and Lucille Roberts Memorial Fellowship Fund
12. Arno C. Fieldner Research Fellowship in Chemical Engineering

SCHOLARSHIPS
1. Dow Chemical Company
2. Goodyear Foundation
4. Monsanto Company
5. Pittsburgh Plate Glass Foundation
6. Rohm and Haas Company
7. Standard Oil of California
8. Union Camp Corporation
9. Universal Oil Products Company
10. Dr. James R. Withrow Memorial Scholarship Fund

GRANTS-IN-AID AND OTHER CONTRIBUTIONS
1. American Cyanamid Company
2. Diamond Shamrock Company
3. Camille and Henry Dreyfus Foundation, Inc.
4. Dow Chemical Company
5. Dow Corning Corporation
7. Esso Education Foundation*
8. B.F. Goodrich Chemical Company
9. Harshaw Chemical Company, Division of Kewanee Oil Company
10. Hercules Company*
11. Pittsburgh Plate Glass Foundation
12. Mead Corporation
13. Monsanto Company
14. Union Carbide Corporation*
15. Universal Oil Products Company
16. Mobil Foundation Incorporated
17. Celanese Corporation Fund for Chemical Engineering*

* May also be used for a Fellowship

THE OHIO STATE UNIVERSITY CHEMICAL ENGINEERING EQUIPMENT DEVELOPMENT FUND

Contributions for this worthy cause are still coming in. Many of our alumni are ear-marking their contributions to the Development Fund for the Chemical Engineering Project #5659. The University Administration, including our Dean of Engineering, has done much in the past decade in the uplifting of our Department in the areas of salaries, building, research, equipment, personnel, and travel. Their cooperation with us has been positive. However, it is impossible for the University to support all of our needs from the budget. The contributions from our alumni and the grants-in-aid from many chemical companies help us materially. These contributions have been very helpful to defray the expenses of getting this report out and for the postage required. The University budget for the Department does not include this item which amounts to over $1,500 per issue. The cost is increased by return mail for reports returned due to incorrect mailing address.

IF YOU MOVE PLEASE SEND US YOUR NEW ADDRESS. IT WILL SAVE US OVER $100.00 PER YEAR.
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**SCHOOL OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE**

| Arch          | 115 | 71 | 40 | 32 | 29 | 287 |
| L. Arch       | 14  | 4  | 4  | 5  | 7  | 34  |
| TOTAL REG.    | 964 | 696| 443| 445| 310| 2952|

**Irreg.**

| Part-Time Educ. Oppor. | 117 |
| Grand Total            | 3098 |

Included in above totals: Lima = 2, Mansfield = 4, Marion = 2, Newark = 2, Wright-Patterson Air Force Base = 57
DECEASED CHEMICAL ENGINEERING ALUMNI

(Number in Parenthesis Indicates Number of Graduates that Year)

1902
1. Harvey Keating
2. John Hoffhine

1904
1. Thomas Beer
2. Arno C. Fieldner

1906 (3)
1. Harry R. Drackett
2. Harry E. Surface
3. Dana J. Demorest
4. A. H. Flower

1907 (6)
1. Frank M. Dorsey
2. Charles P. Hoover
3. Paul McDorman
5. Harry M. Williams

1909 (6)
1. Erwin Sohn
2. O. R. Sweeney
3. Sydney H. Katz
4. H. H. Watt

1910 (7)
1. Ernest H. Grant
2. William D. Lareaux
3. W. A. Richey
4. Lear H. Van Buskirk
5. P. S. Beebe

1911 (11)
1. Harry V. Atkinson
2. Summer B. Frank
3. Roscoe C. Jones
4. Clarence B. King
5. C. J. Burkle
6. Albert W. Aavison
7. Howard Dock
8. Ralph E. Hall
9. P. M. Giesey
10. E. S. Boersterl
11. F. J. Montgomery
12. C. E. Veit
13. Walter O. Augustine
14. W. A. Richey
15. B. S. Eberstler
16. T. G. Roderick

1913 (12)
1. Henry N. Case
2. Charles R. Parkinson
3. Albert N. Erickson
4. Reuben L. Walter
5. Howard E. Fritz
6. A. C. Perrin
7. James Brown
8. W. M. Davis
9. Clare O. Ewing, Sr.
10. Virgil A. Moore

1914 (19)
1. Emil H. Balz
2. W. T. Burgooon
3. Paul Cottringer
4. A. A. Chambers
5. Roy D. Fritz
6. L. A. Gregg
7. Edward G. Hines
8. Brice Stewart Hull
9. Lesley S. Jenkins
10. P. R. Morris
11. A. A. Kohn
12. R. W. Shafor
13. A. R. Willis
14. Claud R. McNeil

1915 (20)
1. C. R. Bennett
2. Walter M. Berger
3. Ralph Peter Heikes
4. H. L. Dick
5. Carl W. Simson
6. J. W. Melick
7. J. O. Lord
8. G. D. Evans
9. A. R. Willis
10. Melvin DeGroote
11. P. C. Dunn
12. Kenneth Kersey
13. C. E. Reiss

1916 (21)
1. M. A. Muskopf
2. Hanford A. Thirey
3. K. W. Reed
4. F. C. Wilbrandt
5. W. F. Brown
6. L. E. Smith
7. J. W. Young
8. Herbert S. Goith

1917 (20)
1. Carl E. Aungst
2. Walter L. Krueger
3. William A. Wirth
4. D. F. Alexander
5. F. L. Sinks
6. H. H. Thompson
7. Fred N. Schaad
8. H. D. Holler (Ph.D.)
9. W. I. Burt
10. Chase R. Bennett
11. E. J. Witzemann

1918 (19)
1. G. A. Burrell
2. A. E. Hess
3. Garland H. Hufford
4. Edwin W. Mann
5. N. Alton Michell
6. J. M. Ort
7. A. H. Wilbrandt
8. A. E. Galloway
9. J. H. Young
10. P. Horton
11. F. T. Andrews
12. S. L. Shenfield

1919 (8)
1. Howard F. Anders
2. J. G. Ralston
3. H. W. Sevler
4. E. V. O'Rourke (Pet. Eng.)
5. Harold R. Nicklaus

1920 (31)
1. Haney C. Howell
2. Louis J. Mathies, Jr.
3. Roy Paster
4. Victor J. Roehm
5. Harold T. Rainer-Puff
6. Carroll L. Strait
7. Joseph M. Volzer
8. Russell F. Hamilton
9. R. R. Kennedy
10. Fred V. Dottr

1921 (29)
1. Walker F. Spear
2. W. K. Gilkey
3. William Green
4. C. M. Evans
5. John E. Wiss
6. Donald Brooks
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Walter L. Klaiber  
Roland M. Kohr  
R. E. Wolfe  
R. E. Whinnery  
Wallace Wing  
Ben Blumenthal  
Carl J. Beckert  
C. A. Ritchie  
Andrew Karsten  
Marion Reed  
H. G. Carroll |
| 1923 | R. T. Donham  
Albert G. Corwin  
James T. Goff  
William J. Harrison  
G. R. Lyon  
J. L. Roberts  
J. L. Ware  
E. N. Prinz  
Stanley Newbrander  
C. R. Blanchard  
Y. L. Pun  
Howard E. Fritz  
Frank W. Volk |
| 1924 | Carroll M. Allen  
Raymond S. Carter  
C. Weis  
George W. Ruhl  
Virgil Hutton  
H. T. Ruff (Ph.D.)  
Frank J. Koehne |
| 1925 | Curtis Balding  
Lorin E. Lutz  
Frederick H. MacLaren  
Adolph Valley  
John Bowers  
Chennan Shen  
Henry F. Palmer  
S. M. Sun  
Arthur E. Juve  
Alfred M. Eyerman |
| 1926 | J. Gavin Cullinan  
J. L. Thoma  
Mao Han Tuan |
| 1927 | Charles W. Hammett  
Dwight S. Masters  
Edwin F. Nussdorfer  
Charles R. Owens  
L. E. Mong  
Dwight S. Masters  
C. E. Fareuff  
Willard B. Mitchener |
| 1928 | Thomas C. Chadwick  
E. B. Martin  
Wilson F. Brown  
E. B. Carr |
| 1929 | James Pace Alton  
Ming Tan Hsieh  
W. J. Michel  
E. B. Carr |
| 1930 | G. B. Malvea  
K. M. Sprinkel  
J. L. Arns  
John J. Hazel  
Harold C. Cronenberger  
H. G. Cooper |
| 1931 | T. W. Elslager  
Adolph Wassertheurer  
C. J. Black  
E. B. Carr |
| 1932 | Conrad F. Daum  
David M. Goodfriend  
Alfred E. Galloway  
E. C. Plotter  
William M. Davis |
| 1933 | Francis E. Pickering  
Carl H. Albrecht  
H. L. Sittler  
Thomas C. Chadwick (Ph.D.)  
E. W. Mann  
Charles Sudman  
Paul Patton |
| 1934 | George K. Dumbald  
Lawrence Stout |
| 1935 | Harvey C. Gillogly  
William Swisher  
Lee Kleinmaier  
William T. Walton  
James F. Simpson  
Harry Conaway |
| 1936 | Robert L. Scroggs |
| 1937 | Richard M. Abbott  
Clare O. Ewing, Jr.  
Leon W. Omwake  
William C. Shank  
E. H. Osborne  
James Braden  
J. P. Mitchelson  
Frank A. Vinci |
| 1938 | D. J. Gaston  
Howard J. Orlowski  
Alexander Newhouse  
Henry F. Palmer  
Richard D. Schafer  
Albert L. Taylor |
| 1939 | Robert E. Scheiber  
Ralph Edwin Hall  
E. E. Kimmel, Jr. |
| 1940 | Carmen Adovasio  
P. Wayne Beall  
John R. Linn  
Robert Mills |
| 1941 | John W. Russell  
W. H. Williams |
| 1942 | Vaughn E. Kelly  
Julian Adam Yocum |
| 1943 | M. F. Dick  
Willis T. Harberson |
| 1944 | K. E. Kress |
DECEASED (CONT'D)

1945 (14)
1. Roland L. Allen
2. Charles J. Speitz, Jr.
3. Howard Wilkinson
4. J. B. Mitchelson

1947 (103)
1. Sidney Miller
2. Marion G. Dick

1948 (147)
1. H. C. Clafin
2. Dowald Dewey
3. David F. Pickard
4. D. L. Wiggins
5. Robert J. Wygal

1949 (132)
1. Thomas O. Feasel
2. John W. Shook, Jr.

1950 (87)
1. Robert C. Johnston
2. David Pickard

1951 (103)
1. Turner Ferguson
2. John R. Seferian
3. Donald C. Dewey
4. Karl W. Mezgar
5. Harry C. Clafin

1952
1. C. Schlea

1953 (44)
1. Al-Kazimi, Abd Ali M.

1955 (57)
1. Fred C. Ohmeiss
2. Carl S. Scilea
3. Glenn L. Moll
4. William Kaiser

1960 (56)
1. Rolland E. Blosser

NUMBER OF DEGREES CONFERRED BY THE DEPARTMENT

The number of degrees conferred by the Chemical Engineering Department on a cumulative basis is given below and for five year periods are given below. This question has been asked many times. We have data on a yearly basis but it was my thought that this would increase the cost of postage. If anyone would like the data we will be happy to send you a xerox copy of the complete data.

<table>
<thead>
<tr>
<th>Year</th>
<th>B.Ch.E.</th>
<th>M.Sc.</th>
<th>Ch.E*</th>
<th>Ph.D.</th>
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<td>1</td>
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<td>0</td>
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<td>1969</td>
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<td>766</td>
<td>29</td>
<td>241</td>
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</table>

*Degree abolished in 1963
LOST, STRAYED OR STOLEN ALUMNI IN CHEMICAL ENGINEERING

IF YOU KNOW THE ADDRESS OF ANY OF THESE, WE WOULD APPRECIATE IT VERY MUCH IF YOU WOULD INFORM US. WE WERE ABLE TO FIND OVER 50 WITH YOUR HELP THIS PAST YEAR.

1910
1. E. W. Gorman
2. C. G. Wood

1912
1. W. N. Lorentz

1913
1. A. N. Erickson
2. F. C. Smith

1914
1. W. J. King

1915
1. W. T. Kramer
2. H. Mitzen

1917
1. E. R. Schafer
2. En-Ton-Lee Toma

1919
1. C. C. Keckler

1920
1. Yu Seng Tsen

1921
1. H. W. Hess
2. R. D. Kumajon
3. M. C. Reed

1922
1. V. R. Morris
2. C. V. Pang

1923
1. A. F. Acosta
2. H. M. Davies
3. W. H. Miller
4. H. L. Moon

1924
1. Tien I. Chen

1925
1. C. M. Sun

1926
1. F. C. Davis
2. J. A. Thompson
3. Cho Wu

1927
1. Cheung Ying Chu
2. D. L. Bishop
3. Wei Yang

1928
1. R. B. Goble
2. Chieh Ma

1931
1. Mrs. H. Hsieng

1933
1. N. R. Price

1935
1. E. C. Painter

1937
1. R. V. Cobb
2. C. B. Cross

1938
1. T. K. Wu

1939
1. K. Hoover

1940
1. G. D. Kane
2. C. W. White

1943
1. R. H. Collins
2. A. R. VanKleeck

1947
1. V. Khamneizadeh
2. L. E. Parker
3. J. K. Petry
4. H. L. Sturza
5. J. E. Thompson

1948
1. W. C. Blackwood
2. En Tsch Ming
3. Tan Chin Wang

1949
1. Huan-Yun Hsung
2. Morgan Jones
3. W. C. Miller
4. Chi-Tu pan

1950
1. D. B. Barnes
2. E. H. Chao

1951
1. B. D. Blackie

1952
1. Roy Choudhury

1953
1. R. F. Hoeckelman
2. M. K. D. Sanghvi

1955
1. G. L. DePablo
2. R. C. Fischer
3. W. E. Kreiner

1956
1. George Abraham

1957
1. A. C. Schulz

1960
1. W. I. Fox

1961
1. B. Harshbarger

1962
1. F. A. Schurtz

1963
1. V. Beuk
2. B. D. Blackie
3. L. K. Schultheis

1964
1. J. Moomaw

1965
1. V. L. DePaola
PLACEMENT OF CHEMICAL ENGINEERING GRADUATES

June, 1968 - December, 1968

BACHELOR OF CHEMICAL ENGINEERING

<table>
<thead>
<tr>
<th>NO.</th>
<th>NAME</th>
<th>COMPANY AND LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Raymond Antoine Poisset</td>
<td>Owens Corning Fiberglas, Newark, Ohio</td>
</tr>
<tr>
<td>2.</td>
<td>Richard Dean Haberkost</td>
<td>Shell Chemical, Union, New Jersey</td>
</tr>
<tr>
<td>3.</td>
<td>Frederick Carleton Kerscher</td>
<td>Goodyear Tire and Rubber, Akron, Ohio</td>
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<tr>
<td>4.</td>
<td>Gerald Maurice Lehmann</td>
<td>American Oil, Whiting, Indiana</td>
</tr>
<tr>
<td>5.</td>
<td>Richard Thomas Linak</td>
<td>Owens Corning Fiberglas, Toledo, Ohio</td>
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<tr>
<td>6.</td>
<td>Faramarz Nazem</td>
<td>Returned to Teheran, Iran</td>
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<tr>
<td>7.</td>
<td>William Culver Pontius</td>
<td>Union Oil Co. of Calif., Santa Fe Springs, Calif.</td>
</tr>
<tr>
<td>8.</td>
<td>James William Sebert</td>
<td>Naval Ordnance Station, Indian Head, Maryland</td>
</tr>
<tr>
<td>9.</td>
<td>Allan Wesley Strong</td>
<td>G. E. Pitney Glass Plant, Cleveland, Ohio</td>
</tr>
<tr>
<td>11.</td>
<td>Joseph Louis Taraba</td>
<td>Chemical Engineering Dept., Ohio State University</td>
</tr>
</tbody>
</table>

June, 1968

<table>
<thead>
<tr>
<th>NO.</th>
<th>NAME</th>
<th>COMPANY AND LOCATION</th>
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<tbody>
<tr>
<td>1.</td>
<td>Geoffrey Andrew Lindsay</td>
<td>B.F. Goodrich, Brecksville, Ohio</td>
</tr>
<tr>
<td>3.</td>
<td>Herbert Alfred Newhouse</td>
<td>Humble Oil and Refining, Houston, Texas</td>
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<tr>
<td>4.</td>
<td>Dudley Kenneth Reese</td>
<td>American Oil, Whiting, Indiana</td>
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<tr>
<td>5.</td>
<td>John Michael Salladay</td>
<td>Dow Chemical Co., Midland, Michigan</td>
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<tr>
<td>6.</td>
<td>Douglas Erwin Smith</td>
<td>PPG, Beaumont, Texas</td>
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<tr>
<td>7.</td>
<td>David John Walters</td>
<td>E. I. du Pont De Nemours, Berrard, N. Carolina</td>
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August, 1968

<table>
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<th>NO.</th>
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<th>COMPANY AND LOCATION</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>William Edward Ferguson</td>
<td>E. I. du Pont de Nemours, La Porte, Texas</td>
</tr>
<tr>
<td>2.</td>
<td>James M. Flerchinger</td>
<td>Union Carbide Corp, Carbon Products Div., Parma, Ohio</td>
</tr>
<tr>
<td>3.</td>
<td>Lawrence H. Green</td>
<td>begins graduate school for his MBA degree</td>
</tr>
<tr>
<td>4.</td>
<td>Modupeola Oluremilekun Owotomo</td>
<td>Will work in Nigeria</td>
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MASTER OF SCIENCE

June, 1968

<table>
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<th>NO.</th>
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<tbody>
<tr>
<td>1.</td>
<td>Ahmet Zeki Kutlu</td>
<td>Phillips Petroleum, Bartlesville, Oklahoma</td>
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<td>2.</td>
<td>John Martin Yacher</td>
<td>Public Health Service, Cincinnati, Ohio</td>
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August, 1968

<table>
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<th>NO.</th>
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<th>COMPANY AND LOCATION</th>
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<tbody>
<tr>
<td>1.</td>
<td>Sung Chun Pak</td>
<td>Chemical Engineering Dept. Ohio State University</td>
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December, 1968

<table>
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<tr>
<th>NO.</th>
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<th>COMPANY AND LOCATION</th>
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<tr>
<td>2.</td>
<td>Edward Martin Halko</td>
<td>Diamond Shamrock, Cleveland, Ohio</td>
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<td>3.</td>
<td>Richard Frank Havlice</td>
<td>American Oil of Indiana, Whiting, Indiana</td>
</tr>
<tr>
<td>4.</td>
<td>Geoffrey Andrew Lindsay</td>
<td>B.F. Goodrich, Brecksville, Ohio</td>
</tr>
<tr>
<td>5.</td>
<td>David LeRoy Lull</td>
<td>Diamond Shamrock, Cleveland, Ohio</td>
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</table>
6. Arun Vasant Mandlekar
7. Michael Collins Rominger
8. John Michael Salladay
9. James William Sebert

DOCTOR OF PHILOSOPHY

1. Jerry Randel Barber
2. Douglas Wayne Hissong
3. Merrill Loren Minges

1. Arthur Wood Thornton
2. Larry Everett Wing

1. Roy Russell Huddleston
2. Eugene Lawrence Jarrett
3. Kenneth Norwood McKelvey
4. James Edward Williamson

DOCTOR OF PHILOSOPHY

1. Miss Mamata Dutta

MASTER OF SCIENCE

1. Peter Nevius Bartram
2. Robert Anthony Baxter
3. Rohin Khera
4. Juan Francisco Kuon

BACHELOR OF SCIENCE

1. Scott McComb Barrick
2. James Louis Braun

Union Oil Co. of California, Nederland, Texas
Chemical Engineering, Ohio State University
Dow Chemical Co., Midland, Michigan
Naval Ordnance Station, Indian Head, Maryland

June, 1968
Union Carbide, S. Charleston, West Virginia
Esso Research Lab., Baton Rouge, Louisiana
U.S. Air Force Materials Lab., Dayton, Ohio

August, 1968
Procter & Gamble Co., Cleveland, Ohio
E. I. Du Pont De Nemours, Circleville, Ohio

December, 1968
Esso Standard, New York, New York
Union Carbide Corp., S. Charleston, West Virginia
E. I. Du Pont De Nemours, Wilmington, Delaware
E. I. Du Pont De Nemours, Wilmington, Delaware

March, 1969
Kanpur University, Kanpur, India

To the U.S. Army
Diamond Shamrock
FMC Corp., Huntington, West Virginia
Teaching Asst., Universidad Nacional de Ingenieria
Lima, Peru

going on for Master's degree
going on for Master's degree
It was my thought that many of you will get a laugh and then become serious of what follows

RETIREMENT

(I do not know the source or author of this jem. It was given to me).
When I was young, my slippers were red-
I could kick up my heels over my head-
When I got older, my slippers were blu-
But I still could dance the whole night through!
Now I am old, and my slippers are black-
I walk to the corner and puff my way back-
How do I know my youth has been spent?
My get-up-and-go has got up and went!
But I really don't mind, as I think with a grin-
Of all the grand places my "get-up" has been.
I get up each morning and dust off my wits-
Pick up the paper and read the Obits-
If I find my name missing, I know I'm not dead-
So I eat a good breakfast and go back to bed!

CARMEN, OHIO

This was given me in 1967 by George Brinton Sr., M.E.-E.E. 1907 on the occasion of his sixtieth anniversary. He dropped into my office with Chet McClintock former director of Laboratory Supply Stores. He brought greetings from his good neighbor Sid (Mr. Chemical Engineering) Kirkpatrick.
The fourth verse was written by George Brinton Thomas, Jr.

CARMEN OHIO

1. Oh! come let's sing O-hi-o's praise,
   And songs to Alma Mater raise;
   While our hearts rebounding thrill,
   With joy which death alone can still.
   Summer's heat or Winter's cold,
   The seasons pass, the years will roll;
   Time and change will surely show
   How firm thy friendship - O-hi-o.

2. These jolly days of priceless worth,
   By far the gladdest days of earth,
   Soon will pass and we not know
   How dearly we love O-hi-o.
   We should strive to keep thy name
   Of fair repute and spotless fame;
   So, in college halls we'll grow
   To love thee better - O-hi-o.

3. Tho' age may dim our mem'ry's store,
   We'll think of happy days of yore,
   True to friend and frank to foe,
   As sturdy sons of O-hi-o.
   If on seas of care we roll,
   'Neath blackened sky, o'er barren shoal,
   Thoughts of thee bid dankness go,
   Dear Alma Mater - O-hi-o.

4. Still we sing Ohio's praise
   Our Alma Mater all our days.
   Sixty years have come and gone
   And still our love for thee lives on.
   As the years have swiftly flown
   Thy name has ever dearer grown;
   Dearer now than long ago
   Thou art forever - O-hi-o!

*Written by George Brinton Thomas, Jr., son of George Brinton Thomas, Sr.. ME-EE'07.
Comment by Mr. Thomas, Sr.: "Here is a fourth verse for Carmen Ohio - written by son George, Jr., who was raised on Carmen Ohio along with other college and folk songs under the guidance of his musical mother."

The meeting in the Unit Operations Laboratory

The Sages of the Department
1914, 1918- L.T. Capell, C.A. Buehler, T.A. Boyd, J.P. Smoots

1923- D.C. Butts, E.C. Hendrickson, C.E. Bland, E. Meiter, A. Schwensen


1933 - H.L. Barnebey, L.K. Grove
Suzie Q. Dempsey and Tom Fitz

Sidney D. Kirkpatrick (Mr. Chemical Engineering) presenting M.S.Kellogg Co design award to Dick Haberkost

Part of the Union Carbide gang presenting the Propetual Motion Clock to J.H. Koffolt. Tom Koffolt, J.H.K., E.E. Bucksten; 2nd row: Norm Cox, Dr. Bill Larcamp, W.H. Casto, Burt Heitzleman, last row; R.T. Huent, M.L. McClennen, Ed Cannon, H. Robertson

All Haberkosts, Don, expected 1970, Dean, 1943 and Dick, 1968
Paul Brown presenting the AIChE scholarship award to Bradford Dunn

Dr. Syverson presenting Doug E. Smith with the department of Chemical Engineering student department service award

Dr. W. B. Kay presenting David J. Walters with the American Institute of Chemists Award

Returning to Jim Sebert the scholarship award of 1965