Seventeenth Annual Report
To The Chemical Engineering Alumni
The Ohio State University

April 1, 1965

CHEMICAL ENGINEERING AND MATERIALS ENGINEERING SCIENCE BUILDING
(Chemical, Metallurgical and Ceramic Engineering and Mineralogy).
Dear Jewels:

Once again it is the best time of the year - the time when I write to all of you. I am sorry, but I am about two weeks late on this report. There were too many deadlines. Once again I wish to take this opportunity to thank all who have done so much for us through the Development Fund, earmarking your funds for Project 25659 - Chemical Engineering Equipment Development Fund. We have received many contributions this past year, many of who could not contribute when we started our drive have now made contributions and the fund has netted over $100,000.00. As I have said before, this has helped on travel, replacement of obsolete equipment and research equipment.

I am happy to report that we have six alumni of our department who are members of the President's Club. These men have agreed to contribute $10,000.00 or more payable at the rate of not less than $1,000.00 per year for a ten year period. These men are: Arno C. Fieldner, B.Ch.E. 1906, Honorary D.Sc. 1911; Thomas A. Boyd, B.Ch.E. 1918, Honorary D.Sc. 1952; Cyril E. Porthouse, B.Ch.E. 1932, M.Sc. 1933; Herbert L. Fenburr, B.Ch.E. 1933, M.Sc. 1935, Ph.D. 1937; Harry Warner, B.Ch.E. 1938, M.Sc. 1939; Robert L. Bates, B.Ch.E. 1948.

Each of these men will have a laboratory in the Chemical Engineering Building dedicated to him and we will place a plaque bearing the name of the contributor we wish to honor. We already have two laboratories which bear such plaques and are named after Helvin DeGroot (deceased), B.Ch.E. 1915, Honorary D.Sc. 1955; and L. K. Herndon, B.Ch.E. 1929, M.Sc. 1931, Ph.D. 1938. A third laboratory is named for Battelle Memorial Institute. The latter two made contributions equal to the cost of a Graduate Laboratory.

It was good to have two alumni meetings this past year; the first, at the Annual meeting of the American Institute of Chemical Engineers in Boston, and the second at a meeting of Chemical Engineering alumni in Charleston, West Virginia in March. The alumni meeting at the Annual Meetings of the A.I.Ch.E. is a yearly event.

CHANGES IN CHEMICAL ENGINEERING CURRICULUM - Machine Design and Chemical Engineering 791 are now electives. Students on the B.Ch.E. program now have 19 hours of electives. The changes were recommended by the ECPD Inspector in his report to the University after his inspection of our Department in March, 1964. We have been reaccredited again for a six year term.

We are introducing three new undergraduate elective courses in Chemical Engineering; namely, Rheology, High Polymers, and Air Pollution. We still give graduate courses in High Polymers, Air Pollution, and Rheology.

Our program in Petroleum Reservoir Engineering is coming along in an excellent manner. Professor Slider is very happy with this program or option in the Chemical Engineering curricula. The enrollment in these courses has been increasing. A few years ago, the degree in Petroleum Engineering was dropped due to the very low enrollment. All students still get the degree in Chemical Engineering and, by a few substitutions, we have been able to introduce the Petroleum Engineering program into the curricula.

(Continued on page 19)
GENERAL PROGRAM

FRIDAY, APRIL 30, 1965
All Times Are Eastern Standard

8:00 REGISTRATION - Mershon Auditorium, 15th Avenue and North High Street
9:00 GENERAL SESSION - Mershon Auditorium

THEME: Educating Today's Engineer For Tomorrow's Industry

"A Look at Today's Engineering Graduate: What He Can Contribute" 
Dr. Harold A. Bolz, Dean, College of Engineering

"New Analytical Approaches"—For Teaching and Engineering Practice
Professor E. E. Dreese, Chairman, Electrical Engineering

"How Graduates Are Prepared to Think in the Total System Concept"
Dr. Aldrich Syversen, Professor, Chemical Engineering

"An Industry View of Today's Engineering Graduate"
William H. Jaques, Director of Technical Services, Procter and 
Gamble Company, Cincinnati, Ohio
Presentation of Tensile Alumina Award

"The Alumni Stake in OSU"—Edward E. Slochter(B.Ch.E.'13, M.Sc.'35)
Vice President, Battelle Memorial Institute and Organization 
Chairman, Committee of 100 for Engineering

THE ENTIRE CONFERENCE WILL HIGHLIGHT

"Engineering and industry leaders are indicating a widespread interest in what is taking place in engineering education today. But, as most of us realize, the fast pace of business makes it increasingly difficult to keep in touch with all of those things which are important to our work. To help alleviate this situation the 1965 Annual Conference for Engineers and Architects is planned to give our visitors a good insight into today's educational program and its impact on engineering in industry. We shall discuss:

* What new things are engineering students learning these days?
* How do new approaches in teaching give traditional subject areas more general applicability?
* What can be done to make continuing engineering studies more readily available to the experienced engineer?

But more important to you as an engineer in professional practice, we hope to indicate how you can capitalize on these new trends:

* By quicker utilization of the talents of young graduates
* By enhancing your competence as an experienced engineer with the ability to use these powerful new techniques for analysis and decision making."

11:30 OHIO UNION BALLROOMS
Presiding—Marion L. Smith, Associate Dean, College of Engineering
Recognition of Engineering Honor Students—Dr. John C. Weaver, Vice President, Instruction and Dean of Faculties, The Ohio State University
Presentation of Distinguished Alumnius Awards
"New Competence to Compete-Through Space-Age Technology"—Hayward A. Gay
President, Pratt & Whitney, Inc., West Hartford, Connecticut
2:00 DEPARTMENT OF CHEMICAL ENGINEERING
Chemical Engineering Building, Room 207
Presiding—Joseph H. Koffolt, Chairman

Presentation of Student Awards in Chemical Engineering—
American Institute of Chemical Engineers—Annual Scholarship Award
M.W. Kellogg Design Award
Central Ohio Section, American Institute of Chemical Engineers—
Student Contest Problem Award
American Institute of Chemists Professional Award

Introducing the Golden Anniversary Class of 1915:
Orvon Parker Gephart
Kenneth Kersey
Harry Mitzen
Clifford Earl Reiss
George Theobald Ross
Clarence Julius Strobel
Harold B. Taylor

2:30 MODERN TRANSPORT PHENOMENA: A Unified Approach.
Room 207, Chemical Engineering Building
Dr. Robert S. Brodkey
Professor, Chemical Engineering

Those who are interested who would prefer to see the research facilities of the Department can do so, 2:30 or alternate.

Properties of Azeotropes – Dr. W. B. Kay – Room 436
Surface Transport and Transient Adsorption – Reaction Research – Dr. A. Syverson – Room 434
Mass Transfer Phenomena of Fluids in Heterogeneous Media – Dr. C. J. Geankoplis – Room 332
Chemical Engineering as Applied to Environmental Control – Dr. T. L. Sweeney – Room 221B
Phase Behavior of the Trempealeau Reservoir, Morrow County, Ohio; Miscible Displacement Studies of Clinton Sand – Professor H. C. Slider – Room 425
Problems of Fluid Dynamics in Chemical Engineering Mixing, Turbulence, etc. – Dr. R. S. Brodkey – Room 306
Chemical Kinetics of Flow Reactors – Dr. T. E. Corrigan – Room 310
Coal Research, Petroleum Refining Research, Reaction Mechanism Studies and Development of Analytical Methods – Dr. E. E. Smith – Room 105
Engineering Experiment Station – 156 W. 19th Avenue
Waste Water and Water Treatment Processes – Professor W. D. Sheets – Water Resources Center – 1791 Neil Avenue

RESEARCH PROGRAMS IN PROGRESS

Turbulent Motion and Mixing, Two-Phase Flow, and Rheology Studies, R. S. Brodkey
Kinetics in Flow Reactors with Partial Mixing, T. E. Corrigan, L. Wing
Diffusion and Mass Transfer of Gases at High Vacuum, Axial Dispersion and Mass Transfer of Liquids in Porous and Packed Media, C. J. Geankoplis
Azeotropic Mixtures, Phase Behavior in the Critical Region, W. B. Kay
Water and Waste Water Treatment Processes, W. D. Sheets
Phase Behavior of Petroleum Systems, Prediction of Recovery by Secondary Methods, and applications of "Pseudo" Steady State, H. C. Slider
Research Programs in Progress (Cont'd)

Reaction Mechanism Studies, Petroleum Refining, and Chemical Analysis Research,
E. E. Smith
Applications of Chemical Engineering to Environmental Control, T. L. Sweeney
Adsorption Kinetics, Surface Transport, Heterogeneous Catalysis, A. Syverson,
E. R. Haering, G. A. Wilcox

OR

2:30 Those who wish to socialize may do so in the Unit Operations Laboratory
where refreshments will be available until 5:00 p.m.

4:00 SOCIAL HOUR - Unit Operations Laboratory - Room 117

LUNCHEON - If you wish, you can send me your check for $6.00 and I will pre-
register you. The deadline date is April 24 to guarantee luncheon reservations.
The checks should be made payable to "Annual Conference for Engineers".

PARKING - The parking lot at Mershon Auditorium, accessible from 17th Avenue,
will be reserved for guests at a special rate of 50 cents for the day. Please
identify yourself as a visitor to the attendant as a visitor to the Annual Conference for
Engineers and Architects.

HOTEL AND MOTEL ACCOMMODATIONS - Several hotels are available in the downtown
area of Columbus, approximately two miles from the University on a main city
bus line. Some downtown hotels are the Deshler Hilton, the Neil House, and the
Fort Hayes. Motels near the campus are the Ohio Stater Inn, 2060 N. High Street;
the Olentangy Inn, 1299 Olentangy River Rd.; and Stouffer's University Inn,
3025 Olentangy River Rd. Reservations should be made directly. Should you have
any difficulty in getting reservations, we shall be glad to assist you.

THE FRONT COVER is an architect's conception of the completed Chemical Engineering,
Materials Engineering and Science Building. This building will house all of
Chemical Engineering, Metallurgical Engineering, Mineralogy and Ceramic Engineer-
ing. You will kindly note that there will be an addition on the present
structure which will be on stilts to permit students to have easy access to the
students who are staying in the dormitories north of Woodruff Avenue. I under-
stand that this building will be a nine story building and will connect to the
old Chemical Abstracts Building. As you all probably know Chemical Abstracts
is now located next to the campus on Olentangy River Road between W. Lane and
Doddridge.

OTHER PHOTOGRAPHS. On the last two pages of this report are photographs of the
anniversary classes who were available to have their picture taken with the
classes. There were several others in attendance who were at another meeting
at the time the photographs were taken. You will kindly note that the camera
moved in taking the photograph of the class of 1939. In other words the
photographer did not guarantee performance. I requested two photographers but
they thought that one could do the job.
FELLOWSHIPS, SCHOLARSHIPS, GRANTS-IN-AID, AND OTHER CONTRIBUTIONS TO THE CHEMICAL ENGINEERING DEPARTMENT

The generosity of the many companies and agencies listed below are once again acknowledged. These companies are making important contributions to Chemical Engineering education at Ohio State University. Without their help, it would be impossible to have a Graduate Program. The laboratory costs for the undergraduate program would be prohibitive, if it was not for the generous donations of chemicals and in many cases laboratory apparatus.

The undergraduate scholarships have helped many a worthy student, especially on the five-year combined program in which a person can obtain a Masters degree with an additional quarter-and-a-half of work.

The grants-in-aid, as has been stated before, have been very helpful in many respects. For example, the purchase of equipment, financial aid to graduate students who have only one or more quarters to complete their work; travel for faculty members to attend national meetings for the purpose of presenting papers, keeping up with the technological explosion in chemical engineering, to participate on national committee, and presiding at meetings at which they are officers In some cases the grants-in-aid are used for graduate fellowships. This is indicated in the table below:

**FELLOWSHIPS**
1. American Oil Foundation
2. Dow Chemical Company
3. American Cyanamid
4. Diamond Alkali Company
5. Eastman Kodak Company
6. Koppers Company Teaching Fellowship
7. Shell Companies Foundation
9. Lubrizol Corporation
10. Procter and Gamble Company
11. Ohio State University
12. National Science Foundation

**UNDERGRADUATE SCHOLARSHIPS**
1. Dow Chemical Company
2. Goodyear Foundation
4. Monsanto Chemical Company including Chemstrand Company
5. Pittsburgh Plate Glass Foundation
6. Society of Plastic Engineers
7. Standard Oil of California
8. Union Bag-Camp Paper Corporation
9. Universal Oil Products Company

**GRANT-IN-AID AND OTHER CONTRIBUTIONS**
1. American Cyanamid Company
2. Diamond Alkali Company
3. Dow Chemical Company
4. Dow Corning Corporation
5. E.I. duPont de Nemours and Co., Inc.
6. Esso Research and Engineering Company
7. Hercules Powder Company
8. Mead Corporation
9. Monsanto Chemical Company
10. Pittsburgh Plate Glass Foundation
11. Union Carbide Corporation - Union Carbide Chemical Company
12. Universal Oil Product
13. Societé Nobil Oil Company, Inc.

*Money also may be used for a pre-doctoral fellowship.
In some cases the above rotate with other departments at Ohio State University and other universities.

VOTE FOR DALE B. BAKER FOR FIRST VICE PRESIDENT OF THE ALUMNI ASSOCIATION

The following is taken from the March, 1965 issue of the Ohio State University Monthly.

"Dale B. Baker, B.Ch.E., '42, M.Sc., '48, is director of the Chemical Abstracts Service of the American Chemical Society in Columbus.

Born in Bucyrus, he graduated from Bucyrus High School before entering Ohio State. His undergraduate activities included membership in the American Institute of Chemical Engineers and the American Society for Testing Materials.

Following graduation from the University, he served two years during World War II and then became a chemist-supervisor for E.I. duPont de Nemours and Company at that corporation's Repauno plant. In 1946 he was named assistant editor of Chemical Abstracts and in 1951 was promoted to associate editor of the service.

He was appointed associate director of Chemical Abstracts in 1958 and a few months later, upon the retirement of Dr. E. J. Crane, BA '11, DSc '38, was elected director of the service, the world's largest single source of nomenclature information.

As director, he has guided the Chemical Abstracts Service through a major expansion program.

He has been active in the affairs of the American Chemical Society, a past president of the National Federation of Science Abstracting and Indexing Services, a member of the American Association for Advancement of Science, the American Documentation Institute, the Ohio Academy of Science. He is chairman of the Editorial Committee of the Abstracting Board, International Council of Scientific Unions and a member, U.S. National Committee for IUPAC, National Academy of Science/National Research Council.

ENROLLMENT the data are given on the next page. It will be noted that we have 46 more students than we had last year and our high for a long time; 173 of the 216 are in the Freshman and Sophomore years. The attrition is very high in these two years amounting to about 65%. This makes one wonder what the complete answer is. There are many opportunities for chemical engineers as indicated by the salary offers given in this report. There is quite a bit of competition for even Summer employment. We had over 5 times the number of companies interviewing than we had men available. There appears to be a silver lining as the students from High School are improving each year.

Graduate Enrollment. At the present time the Graduate Enrollment in the Department is 80 students, of which 11 are part time from Battelle, Wright Field, etc. These 79 students represent 33 schools. They are: Ohio State University = 29; Tennessee = 1; Cincinnati = 2; Michigan = 3; North Carolina State = 1; Louisville = 1; Cornell = 2; Wisconsin = 1; City College of New York = 2; West Virginia = 3; West Point = 1; MIT = 2; Dayton = 2; University of Colorado = 1; Clarkson = 1; Purdue = 2; Texas A and M = 1; Michigan Tech = 1; Texas and Louisiana State = 1; Cooper Union = 1; Case = 1; Riga, Latvia = 1; Auburn University = 1; Maine = 1; Penn State = 1; New York University and Newark College of Engineering = 1; Newark College of Engineering = 2; University of Minnesota = 1; Seoul University, Korea = 1; Bombay, India = 2; Andhra University, India = 1; Institute Nacional and Universidad, Santa Maria, Chile = 1; Brooklyn Poly Tech = 1.
# College of Engineering Enrollment, Autumn Quarter, 1964

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## School of Architecture and Landscape Architecture

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GRAND TOTAL | 3313

Included in above totals: Lakewood-63, Lima-50, Mansfield-53, Marion-23, Newark-41, WPAFB-88
PROFESSOR PETER KRUMIN. I am sorry to report that Dr. Peter Krumin, Research Professor of Chemical Engineering died October 26, 1964, of a heart attack. He had never been ill. He was 66 years old. He previously had taught at Riga, Latvia, and University of Munich in Germany.

PROFESSOR CHARLES E. DRYDEN. We are happy that Dr. Dryden will be back this summer. He has been at the University of Kanpur in India as a Visiting Professor and Consultant in setting up the Chemical Engineering Curriculum.

DECEASED ALUMNI. These are given on the following pages. It seems that this list is growing. It makes me feel sad to think of these men passing away. Many were in the prime of their lives when they were called away. Last January I went to 8 funerals in two weeks, three of which were alumni.

LOST, STRAYED AND STOLEN ALUMNI. These are given on the following pages. Due to the help of many, the list is decreasing. If you know the whereabouts of any of these men, kindly let us know. Last year we had close to 400 reports returned to us. One hundred and fifth of these had moved and we did not hear about it until the address was given on the envelope. The remaining 250 was due to a "boo-boo" pulled in this office. The young girl we had working on this took the first address in our kardex list and in many cases she had chosen the most convenient address. In some cases the address was for over 20 years ago. I received many letters calling my attention to this. I hope that this does not happen again this year.

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS. 100% of our graduate students have for the seventh consecutive year kept Ohio State at 100%. However, I have said many times I wish that many of the old alumni were members of the Institute. Several years ago none of us were encouraged to join the Institute. After 11 years I joined. Before that time I thought that it was a secret society and you had to know the pass word to become a member. My 30 years in the Institute have been very rewarding. WE WILL BE HAPPY TO SEND AN APPLICATION BLANK FOR MEMBERSHIP IN THE INSTITUTE TO YOU.

THE STROBEL FAMILY. Although we have had many sons of former alumni receive their Chemical Engineering degree from Ohio State, however, this year Clarence J. Strobel, class of 1915, and formerly Technical Advisor to the Baldwin Rubber Company will celebrate his 50th anniversary. Everett Hilton Strobel, Vice President, Firestone Tire and Rubber Company International, class of 1940, will celebrate his 25th anniversary. We are hoping that we get another Strobel or the third generation at Ohio State in the near future.
## Placement of Chemical Engineering Graduates

### March 1961 - March 1965

#### Bachelor of Chemical Engineering

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<td>8.</td>
<td>Walter Reid Hayhow</td>
<td>Enrolled in Medical College at OSU</td>
</tr>
<tr>
<td>9.</td>
<td>Dennis Walter Kirsch</td>
<td>Working towards M.Sc. degree at OSU</td>
</tr>
<tr>
<td>11.</td>
<td>Jerome Walter Mills</td>
<td>Working towards M.Sc. degree at OSU</td>
</tr>
<tr>
<td>12.</td>
<td>Girish Dalpatial Parikh</td>
<td>Working towards M.Sc. degree at OSU</td>
</tr>
<tr>
<td>13.</td>
<td>James Barley Sapp</td>
<td>Working towards M.Sc. degree at OSU</td>
</tr>
<tr>
<td>14.</td>
<td>Thomas Joseph Scattoloni</td>
<td>General Tire and Rubber Co., Akron, Ohio</td>
</tr>
<tr>
<td>16.</td>
<td>Edward Allen Vajnar</td>
<td>Shell Oil Company, Houston, Texas</td>
</tr>
<tr>
<td>17.</td>
<td>William Verne Whitmer</td>
<td>Dow Chemical Company, Midland, Michigan</td>
</tr>
<tr>
<td>18.</td>
<td>Edwin John Wilson</td>
<td>Working towards M.Sc. degree at OSU</td>
</tr>
</tbody>
</table>

#### August 1964

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Company and Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Reinhold Betschel</td>
<td>E. I. du Pont de Nemours and Co., Pens, Grove, NJ.</td>
</tr>
<tr>
<td>2.</td>
<td>Alkis Constantinides</td>
<td>Esso Research and Engineering, Florham Park, N.J.</td>
</tr>
<tr>
<td>5.</td>
<td>James Arthur Moonaw</td>
<td>Diamond Alkali Co., Painesville, Ohio</td>
</tr>
<tr>
<td>6.</td>
<td>Daniel Louis Pachko</td>
<td>General Tire and Rubber Co., Akron, Ohio</td>
</tr>
<tr>
<td>7.</td>
<td>Gustavo Adolfo Tamayo</td>
<td>Disinfectantes Nacionales de Venezuela C.A., Caracas, Venezuela</td>
</tr>
</tbody>
</table>

#### Master of Science

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Company and Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Gary Lee Beeler</td>
<td>E. I. du Pont de Nemours, La Porte, Texas</td>
</tr>
<tr>
<td>2.</td>
<td>William C. Corder</td>
<td>Esso Research and Engineering, Madison, N.J.</td>
</tr>
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#### March 1964

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Company and Location</th>
</tr>
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<tbody>
<tr>
<td>1.</td>
<td>Ralph Sanford Cunningham</td>
<td>Working toward Ph.D. degree at OSU</td>
</tr>
<tr>
<td>2.</td>
<td>Benjamin Co Yao</td>
<td>Working toward Ph.D. degree at OSU</td>
</tr>
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#### June 1964

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Company and Location</th>
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<tbody>
<tr>
<td>1.</td>
<td>Jerry Randel Barber</td>
<td>Working toward Ph.D. degree at OSU</td>
</tr>
<tr>
<td>2.</td>
<td>William Robert Ferris</td>
<td>Dow Corning, Midland, Michigan</td>
</tr>
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</table>

#### August 1964
### MASTER OF SCIENCE

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Employer/Location</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Akiis Constantinides</td>
<td>Eoos Research and Engineering, Florham Park, N.J.</td>
</tr>
<tr>
<td>2</td>
<td>Michael Cutlip</td>
<td>Working toward Ph.D degree at Colorado</td>
</tr>
<tr>
<td>3</td>
<td>Michael Francis Dague</td>
<td>Goodyear Tire and Rubber Co., Akron, Ohio</td>
</tr>
<tr>
<td>5</td>
<td>Dennis Walter Kirsch</td>
<td>Diamond Alkali, Painesville, Ohio</td>
</tr>
<tr>
<td>7</td>
<td>Edwin John Wilson</td>
<td>Dow Chemical, Midland, Michigan</td>
</tr>
</tbody>
</table>

**December 1964**

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Employer/Location</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Hyung Wook Kim</td>
<td>Dow Chemical Co., Midland, Michigan</td>
</tr>
<tr>
<td>3</td>
<td>Jagdish Manilal Sanghavi</td>
<td>Amoco Chemicals Corporation</td>
</tr>
<tr>
<td>4</td>
<td>Fred Allen Shaffstall</td>
<td>Monsanto Chemical Co., Trenton, Michigan</td>
</tr>
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**March 1965**

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Employer/Location</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Sanford Gilbert Bloom</td>
<td>Atlantic Refining Co., Dallas, Texas</td>
</tr>
<tr>
<td>3</td>
<td>Allan Evans Jones</td>
<td>E. I. du Pont de Nemours Co.; Wilmington, Del.</td>
</tr>
<tr>
<td>4</td>
<td>James Walter Jacksonen</td>
<td>Battelle Memorial Institute, Columbus, Ohio</td>
</tr>
</tbody>
</table>

**DOCTOR OF PHILOSOPHY**

<table>
<thead>
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<th>No.</th>
<th>Name</th>
<th>Employer/Location</th>
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<tbody>
<tr>
<td>1</td>
<td>Robert Garvin Dunn</td>
<td>Wright Patterson Air Force Base, Research Section</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dayton, Ohio</td>
</tr>
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**June 1964**

<table>
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<th>No.</th>
<th>Name</th>
<th>Employer/Location</th>
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<tbody>
<tr>
<td>1</td>
<td>Sun Woong Chun</td>
<td>Union Bag - Camp Paper Corp., Princeton, N. J.</td>
</tr>
<tr>
<td>2</td>
<td>Rodrigo Donoso-Hederra</td>
<td>Universidad Tecnica Federico Santa Maria Valparaiso, Chile</td>
</tr>
<tr>
<td>3</td>
<td>David E. Hazlebeck</td>
<td>E. I. du Pont de Nemours Co., Wilmington, Del.</td>
</tr>
<tr>
<td>4</td>
<td>James C. Leslie</td>
<td>Hercules Powder Co., Cumberland, Md.</td>
</tr>
<tr>
<td>5</td>
<td>Donald J. Wilhelm</td>
<td>Universal Oil Products Co., Des Plaines, Ill.</td>
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</tbody>
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**August 1964**

<table>
<thead>
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<th>No.</th>
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**December 1964**

<table>
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<th>No.</th>
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<tr>
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</table>
THE OHIO STATE UNIVERSITY
CHEMICAL ENGINEERING DEPARTMENT

March 25, 1965

Salary Offers for 1964-1965 - Not complete as students are still receiving offers

Underlined salary is offer accepted.
* Indicates some industrial experience.
I International student, will work in home country.
" Going on for Ph.D.
** Taking few interviews. Will not graduate until December, 1966. Or going into service.
already has accepted a job.

Bachelor of Chemical Engineering (5 years)

<table>
<thead>
<tr>
<th>No.</th>
<th>Invitations for Plant Trips</th>
<th>Salary Offers</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>7</td>
<td>645, 660</td>
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<tr>
<td>2</td>
<td>8</td>
<td>675, 685, 665, 660, 660</td>
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<td>3</td>
<td>14</td>
<td>615, 660, 675, 685, 650, 685, 670, 660, 685</td>
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<td>4</td>
<td>1</td>
<td>666, 675, 667</td>
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<tr>
<td>5</td>
<td>**</td>
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<tr>
<td>6</td>
<td>8</td>
<td>660</td>
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<tr>
<td>7</td>
<td>10</td>
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<tr>
<td>9</td>
<td>**</td>
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</tr>
<tr>
<td>10</td>
<td></td>
<td>Not taking interviews</td>
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<tr>
<td>11</td>
<td>4</td>
<td>575, 535, 575</td>
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<td>11</td>
<td>665, 685, 675, 650, 650, 665, 655, 675, 660</td>
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<tr>
<td>13</td>
<td>17</td>
<td>675, 665, 660, 660, 670, 660, 680</td>
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Combined Bachelor of Chemical Engineering and Master of Science

<table>
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<th>Invitations for Plant Trips</th>
<th>Salary Offers</th>
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<tr>
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<td>9</td>
<td>775</td>
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<td>&quot;</td>
<td>755</td>
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<tr>
<td>No.</td>
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<td>Salary Offers</td>
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<td>4</td>
<td>1</td>
<td>725</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>Officer in U.S. Air Force</td>
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<tr>
<td>6</td>
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<tr>
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**Ph.D.**

<table>
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<th>No.</th>
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<td>13</td>
<td>1000, 945, 915, 1050, 1000, 1075,</td>
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SUMMER JOBS

FOURTH YEAR

1. 585,
2. 560, 550, 530, 585, 595, 550, 535,
3. 540, 575, 585, 590, 550,
4. 595, 540, 550, 560, 475,
5. 530, 565, 500,
6. 530, 535,
7. 530,
8. Not taking interviews
9. 560, 535, 535
10. 560, 585, 450,
11. 580
12. 560, 550,
13. 530, 540, 525,
14. 530,
15. 530,
16. 540, 585,
17. THIRD YEAR
18. 590, 500, 485,
19. 500,
20. 500, 480,
21. 500, 515,
22. 500, 535,
23. 500,
24. 490,
25. Summer Cruise—U.S. Navy $78.00/mth.
26. 500, 450, 500, 500, 525,
27. 480, 510,
28. Air Force ROTC Encampment
29. 500, 510,
30. 490,
31. 500,
THE OHIO STATE UNIVERSITY
DEPARTMENT OF CHEMICAL ENGINEERING
1964-1965 LIST OF STAFF MEMBERS, FELLOWS, SCHOLARS, AND RESEARCH FOUNDATION STAFF

I. PROFESSORS
1. Joseph H. Koffolt (Chairman)
2. Robert S. Brodkey
3. Charles E. Dryden (On leave)*
4. Christie J. Geankoplis
5. Webster B. Kay
6. Edward V. O'Rourke (Emeritus, P.E.)
7. Aldrich Syverson

II. ASSOCIATE PROFESSORS
1. Thomas E. Corrigan
2. Waldron D. Sheets (Research)
3. H. C. Slider (Pet. Eng.)
4. Edwin E. Smith

III. ASSISTANT PROFESSOR
1. Thomas L. Sweeney

IV. INSTRUCTORS
1. Edwin R. Heering
2. Ronald M. Kovach (Part Time)
3. Terry Coleman (Asst. Inst.)
4. David Bidstrup (Asst. Inst.-Summer)

V. GRADUATE ASSISTANTS
1. Rudolph Hoffman
2. K. S. Ganhi
3. Dean Springer
4. Arthur W. Thornton
5. Jerry Barber (Summer)
6. Ralph Cunningham (Summer)
7. Joseph M. Genco (Summer)
8. Linda Lowe (Summer)

VI. SECRETARY
1. Marjane Trau (Mrs.)

VII. STENOGRAPHERS
1. Sylvia Bowman (Mrs.)
2. Julia Steinmetz (Mrs.)

VIII. TECHNICIAN
1. Michael Kakla

IX. MECHANIC
1. Keldon Latham

X. NATIONAL SCIENCE FOUNDATION TRAINEE
1. Roy R. Boddleston

XI. FELLOWSHIPS
1. American Oil Co.-G. A. Wilcox
2. Dow Chemical Co.-Cary Street
3. Esso Res. and Eng. -Douglas, Hisson
5. Grad. School Summer Fellow - T. A. Coleman
6. Koppers Co. (Teaching)-G. A. Wilcox
7. Linde Co., Div. Union Carbide Corp.-J. Barber
8. Lubrizol - L. A. Stichweh
10. Procter and Gamble - W. E. Lewis
11. Shell Oil - R. S. Cunningham
12. Socony-Mobil Oil Co.-L. Jones

XII. SCHOLARSHIPS
1. C. C. Haltzley - A. D. Bare
2. Fidelity Scholar-A. Constantinides
3. Goodyear Foundation, Inc.-L. R. Perkins
5. Standard Oil of Calif.-J. M. Davidson
6. Simon Lazarus Memorial-J. O. Nye
7. Texaco Scholar- H. J. Zeller
8. Union Bag-Camp - W. Smith
9. Union Carbide Corp.-G. L. McKee
10. Union Carbide Corp.-K. Dunnigan
11. Universal Oil Products - E. N. Wheeler
12. Universal Oil Products - J. F. Gogner
13. Chemstrand Corp. - J. A. Goshay

XIII. RESEARCH FELLOWS-RESEARCH FOUNDATION
1. J. M. Genco
2. H. T. Kim
3. J. Ballard
4. J. E. Williamson
5. J. E. Williamson
6. F. E.
7. E. R. Corino
8. Groening
9. Denny
10. K. H. Lee

XIV. RESEARCH ASSISTANT-WATER RESOURCES
1. R. M. Dunlop

XV. RESEARCH ASSISTANT-ENG. EXP. STATION
1. A. H. Morth - Part-Time
2. H. W. Kim

*Dr. Dryden has been assigned to the Indian Institute of Technology, Kanpur, India. He will return to OSU October, 1965.
DECEASED CHEMICAL ENGINEERING ALUMNI

(Number in Parenthesis Indicates Number of Graduates that Year)

1906 (3)
1. Thomas Beer  
2. B. T. Brooks

1907 (6)
1. Harry R. Drackett  
2. Harry E. Surface  
3. Dana J. Demorest

1908 (5)
1. Frank M. Dorsey  
2. Charles P. Hoover  
3. Paul McDorman  
5. Harry M. Williams

1909 (6)
1. Ervin Sohn  
2. O. R. Sweeney

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

1911 (10)
1. Harry V. Atkinson  
2. Sumner B. Frank  
3. Roscoe C. Jones  
4. Clarence B. King  
5. C. J. Burkley  
6. Albert W. Davison  
7. Howard Dock  
8. Ralph E. Hall

1912 (11)
1. F. M. Giesy  
2. E. S. Boerstler  
3. F. J. Montgomery  
4. C. E. Vert  
5. H. D. Holler

1913 (11)
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 Bowen  
8. W. M. Davis

1914 (12)
1. Emil H. Balz  
2. W. T. Burgoon  
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. F. R. Morris  
11. A. A. Kohr

1915 (20)
1. G. R. Bennett  
2. Walter M. Barger  
3. Ralph Peter Heikes  
4. H. L. Dick  
5. Carl W. Simpson  
6. J. W. Melick  
7. J. O. Lord  
8. G. D. Evans  
9. A. R. Willis  
10. Melvin DeGroote  
11. F. C. Dunn

1916 (16)
1. M. A. Muskopf  
2. Hanford A. Thirey  
3. K. W. Reed  
4. F. C. Vilbrandt  
5. W. F. Brown  
6. L. E. Smith

1917 (16)
1. Carl E. Aungst  
2. Walter L. Krusger  
3. William A. Wirth  
4. D. F. Alexander  
5. F. L. Sinks  
6. H. H. Thompson  
7. Fred N. Schaad

1918 (18)
1. G. A. Burrell  
2. Aubrey E. Hees  
3. Garland H. Hufford  
4. Edwin W. Mann  
5. H. Alton Michell  
6. J. M. Ort  
7. A. H. Vilbrandt  
8. A. E. Galloway  
9. J. H. Young  
10. P. M. Horton  
11. F. T. Andrews

1919 (7)
1. Howard F. Anders  
2. J. G. Ralston

1920 (32)
1. Haney C. Howell  
2. Louis J. Mathies, Jr.  
3. Roy Paster  
4. Victor J. Roehm  
5. Harold T. Reiner-Ruff  
6. Carroll L. Strait  
7. Joseph M. Volzer  
8. Russell F. Hamilton

1921 (29)
1. Walker F. Spear  
2. W. K. Gilkey  
3. William Green  
4. C. M. Evans  
5. John E. Wiss

1922 (33)
1. Paul R. Hines  
2. Walter L. Klaiber  
3. Roland M. Kohr  
4. R. E. Wolfe  
5. R. E. Whinney  
6. Wallace Wing  
7. Ben Blumenthal  
8. Carl J. Beckert  
9. C. A. Ritchie  
10. Andrew Karsten  
11. Marion Reed
<table>
<thead>
<tr>
<th>Year</th>
<th>(Total)</th>
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</thead>
</table>
| 1923 | (60)    | 1. R. T. Donham  
2. Albert G. Corwin  
3. James T. Goff  
4. William J. Harrison  
5. G. E. Lyon  
6. J. L. Roberts  
7. J. L. Ware  
8. E. N. Prinz  
9. Ying L. Pun |
| 1924 | (28)    | 1. Carroll M. Allen  
2. Raymond S. Carter  
3. C. Weis  
4. George W. Ruhl  
5. Virgil Hutton  
6. H. T. Ruff |
| 1925 | (35)    | 1. Lorin E. Lutz  
2. Frederick H. MacIver  
3. Adolph Valley  
4. John Bowers  
5. Chennan Shen  
6. Henry F. Palmer  
7. S. M. Sun  
8. Arthur E. Juve |
| 1926 | (14)    | 1. C. L. Thoma  
2. Mao Han Tuan |
| 1927 | (19)    | 1. Charles B. Hammett  
2. Dwight S. Masters  
3. Edwin F. Nussdorfer  
4. Charles R. Owens  
5. L. E. Mong |
| 1928 | (19)    | 1. Thomas C. Chadwick |
| 1929 | (24)    | 1. James R. Alton  
2. Ming Tan Hsien  
3. W. J. Michel |
| 1930 | (34)    | 1. C. B. Malvea  
2. K. M. Sprinkel  
3. J. L. Arns |
| 1931 | (43)    | 1. T. W. Elslager  
2. Adolph Wassertheuer |
| 1932 | (40)    | 1. Conrad F. Daum  
2. David M. Goodfriend  
3. Alfred E. Galloway  
4. E. C. Flottet  
5. H. L. Sittler |
| 1933 | (42)    | 1. Francis E. Pickering  
2. Carl H. Albrecht |
| 1934 | (39)    | 1. George K. Dumbold |
| 1935 | (66)    | 1. Harvey C. Gillogly  
2. William Swisher |
| 1936 | (42)    | 1. Robert L. Scroggs |
| 1937 | (53)    | 1. Richard M. Abbott  
2. Clare O. Ewing, Jr.  
3. Leon W. Cmweke  
4. William C. Shank  
5. E. H. Osborne  
6. James Braden  
7. J. B. Mitchelson |
| 1938 | (71)    | 1. D. J. Gaston  
2. Howard J. Orlowski  
3. Alexander Newhouse  
4. Henry F. Palmer  
5. Richard D. Schafer |
| 1939 | (69)    | 1. Robert E. Scheiber |
| 1940 | (73)    | 1. Carmen Adovasio  
2. F. Wayne Beall  
3. John R. Linn |
# 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.

<table>
<thead>
<tr>
<th>Year</th>
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<tbody>
<tr>
<td>1913</td>
<td>1. Frederick S. Smith</td>
<td>1926</td>
<td>1. Ford C. Davis</td>
<td>1940</td>
<td>1. G.D. Kane</td>
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<td></td>
<td>2. A. N. Erickson</td>
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<td>2. J.A. Thompson</td>
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<td></td>
<td>3. Frederick C. Smith</td>
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<td>3. Cho Wu</td>
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<td></td>
<td>2. Earl R. Schafer</td>
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<tr>
<td>1918</td>
<td>1. C. C. Keckler</td>
<td>1930</td>
<td>1. Chieh Ma</td>
<td>1945</td>
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<td>2. Wu Yang</td>
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<td>2. R.D. Kumajon</td>
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<td>2. L.E. Parker</td>
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<td>3. Kao Shen</td>
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<td>2. En-Fou Lee Toma</td>
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<td>3. Victor R. Morris</td>
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<td>4. Chang Uyen Pang</td>
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<td>1922</td>
<td>1. L. Chi-Ti Pan</td>
<td>1934</td>
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<td>1949</td>
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<td>2. H. M. Davies</td>
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<td>3. W.H. Miller</td>
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<td>4. L. L. Moon</td>
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<td>1924</td>
<td>1. Tien L. Chen</td>
<td>1936</td>
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<td>1951</td>
<td>1. En Tsch Ming</td>
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<td>2. C. M. Sun</td>
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<td>2. Tse Kao Wu</td>
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<td>1953, 1955 to 1961</td>
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THE MUCH TO DO ABOUT NOTHING DEPARTMENT

I thought that all of you would get a laugh out of the two items given below which came to my attention this past year. I hope that the W.C. STORY does not offend any one.

"A newly married couple was looking for a house in the country and after finding one they decided was suitable, were on their way home. The young wife happened to think they had not noticed a John or a bathroom or a better word for it a water closet, in the place, so she decided to write to the real estate man about it. Being very modest, she hesitated about writing one word, water closet, so she referred to it as the W.C. The real estate man didn't understand what she meant, but after a while decided that she meant the Western Church, near there, and answered as follows:

Dear Madam:

I regret very much the delay in answering your letter, but I now take the pleasure of informing you that the W.C. is located about nine miles from here and is capable of seating about 1299 people. This is very fortunate indeed. If you are not in the habit of going regularly, no doubt you will be interested to know that a great many people take their lunch with them and make a day of it. Others who cannot spare so much time go by auto and usually arrive just in time, but generally are in too big a hurry to wait if the place is crowded. The first time my wife and I went was six years ago and we had to stand up all the time.

It might interest you to know that it is planned to hold a bassar to raise money for plush seats. I might mention that it pains me greatly not to go more frequently. It surely is through no lack of desire, but as we grow older it seems more of an effort, particularly in cold weather.

Yours truly,
The Real Estate Man"

I thought that many of you would get a kick out of the article which was taken from the January, February, 1961 issue of the Standard Oiler, Volume 26, No. 1 published by the Standard Oil Company of California and affiliated companies. This is reproduced by their permission. Some of you like myself who remember these days can point this out to your younger people about the good old days.

"HOW TO BEGIN THE NEAR YEAR RIGHT"

"How would you like to start out 1964 with a nice new set of do's and don'ts for your office? Try these on for size. They were posted in 1872 by the proprietor of a carriage and wagon works."

"1. Office employees will daily sweep the floors, dust the furniture, shelves and showcases. 2. Each clerk will bring in a bucket of water and a scuttle of coal for the day's business. 3. Clerk's will each day fill lamps clean chimneys, trim wicks. Wash the windows once a week. 4. Make your pens carefully. You may whittle nibs to your individual taste. 5. This office will open at 7 a.m. and close at 8 p.m. daily, except on the Sabbath, on which day it will remain closed.
6. Men employees will be given an evening off each week for courting purposes, or two evenings a week, if they go regularly to church.
7. Every employee should lay aside from each pay a goodly sum of his earnings for his benefits during his declining year, so that he will not become a burden upon the charity of his betters. 8. Any employee who smokes Spanish cigars, uses liquor in any form, gets shaves at a barber shop, or frequents pool or public halls; will give me good reason to suspect his worth, intention, integrity, honesty. 9. The employee who has performed his labors faithfully and without fault for a period of 5 years in my service, who has been thrifty and attentive to his religious duties, and is looked upon by his fellowmen as a substantial and law-abiding citizen, will be given an increase of 5 cents per day in his pay, providing a just return in profits from the business permits it.

Dr. Kay is giving the course Petroleum Engineering 735, Reservoir Engineering, Hydrocarbon Phase Behavior. Dr. Kay is one of the leading men in the world on PVT and phase relationships.

Engineering Mechanics 650, Digital Computer Programming-Engineering Applications. This course is a required course in the Chemical Engineering curriculum. The work in analog computers has been integrated with third and fourth year courses in Chemical Engineering.

NEW LABORATORIES - The laboratories in oil production and drilling fluids are now being changed to a high polymer chemical engineering laboratory and a laboratory in rheology. In the latter laboratory, we have over $50,000 invested in equipment for this important work. We are now building up equipment in the high polymer laboratory.

ADDITIONAL PLAQUES IN LABORATORIES - We are hoping to have plaques made up for our Unit Operations Laboratory listing the names of all the students in the Class of 1960 and 1961 who did so much in dismantling the equipment in the old building and setting it up in the new building. It was a Herculean task and I am happy to report that we did not have a single accident. One of the students hurt his angle with a pipe. This could have happened at any time.

SAFETY AND GOOD HOUSEKEEPING is stressed in all of our laboratories. All laboratories are inspected by committees consisting of a senior staff member, graduate and undergraduate students. We have been recognized as having one of the best safety programs in the country in a university. On the basis of this, I was selected to be a member of President Johnson's Conference on Safety last summer. My topic at this meeting was "Safety in Research and Development Laboratories in Universities". Our excellent program in safety is due to the whole-hearted cooperation by our staff and students.

LOOKING FORWARD TO SEEING MANY OF YOU ON APRIL 30 AND WITH KINDST AND WARMEST REGARDS.

Joseph H. Koffelt, Chairman
Chemical Engineering Dept.
CLASS OF 1954 LEFT TO RIGHT
J. VanSise; R. H. Nimitz, J. Yerina;
J. W. Robert

CLASS OF 1959 FRONT ROW LEFT TO RIGHT
S. Chun; R. Kovach; S. Sonawala,
F. Leverett
SECOND ROW LEFT TO RIGHT
J. Foris; G. A. Wilcox; T. Bates;
L. Jones; W. S. Palmer

Some of the alumni reminiscing,
relaxing and just shooting off
the breeze.