March 10, 1961

Thirteenth Annual Report
To the Chemical Engineering Alumni
The Ohio State University

Dr. GORDON B. CARSON
Dean, College of Engineering, 1953-1958
Vice-President and Treasurer, Business and Finance
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March 18, 1961

THIRTEENTH ANNUAL REPORT TO THE ALUMNI OF THE CHEMICAL ENGINEERING
DEPARTMENT OF THE OHIO STATE UNIVERSITY - 1961

Dear Jewels:

To report to all of you, once again, on the state of the Department is indeed heartening and the best medicine for "High Blood Pressure". Checking over the addresses of some 1800 envelopes on our mailing list is not a task. It is good as it gives me the unusual opportunity of thinking of each of you. It does bring back good nostalgic memories. We are still proud that we have the best alumni file of any department in the University. This would not be possible except for the cooperation we receive from each of you.

The format of this letter has been changed by dividing this report in sections. The reason for this is to utilize the time of our office more effectively. The table of contents given on page 7c gives a summary of the items given in this report.

EIGHTH ANNUAL CONFERENCE FOR ENGINEERS AND ARCHITECTS
FRIDAY, APRIL 28, 1961

The general program and that of Chemical Engineering is given on page 7e. Each of you should receive the brochure prepared by the College of Engineering, together with a reservation and personal data card. Kindly send in the latter even if you cannot be with us Friday, April 28th, this will help keep all records up to date.

The Chemical Engineering Department will honor the following Anniversary Classes at this Annual Conference for Engineers:

Golden or Fiftieth Anniversary.................. The Class of 1911
Forty-fifth Anniversary....................... The Class of 1916
Fortieth Anniversary......................... The Class of 1921
Thirty-fifth Anniversary..................... The Class of 1926
Silver or Twenty-fifth....................... The Class of 1936
Twentieth Anniversary.......................... The Class of 1941
Fifteenth Anniversary......................... The Class of 1945
Tenth Anniversary.............................. The Class of 1951
Fifth Anniversary.............................. The Class of 1956

THE CLASS OF 1921

The Fortieth Anniversary Class of 1921 are planning to have a two-day session as they did in 1956. Most of the members of this class have indicated they will be back both April 28th and 29th.

It would be good if the other Anniversary Classes would also come back to reminisce. It is later than we realize. We would be very happy to give anyone of these anniversary classes the names and addresses of members of their class. If any member of these classes wishes to write a letter to his classmates, we would be happy to help. We could have the letter mimeographed in the Department, and mail it from Columbus under the name of the person and persons who would like to write such a letter.

Continued on Page 2
THE FRONT COVER

The Thirteenth Annual Report honors Dr. Gordon B. Carson, Vice President and Treasurer, The Ohio State University. As Dean of our College of Engineering from 1953 to 1958, he revitalized our College of Engineering. In 1953, he recognized that the plight of the Department of Chemical Engineering was the worst in the College. He, therefore, made a new building for Chemical Engineering the Number One goal of the College. We now have the finest facilities for Chemical Engineering in the world. He was so vigorous that the "step-child" College of the University, namely, Engineering, which had been practically neglected since 1925, has completed over $5,000,000 in construction for Chemical, Aeronautical, Civil, Electrical and a portion of Metallurgical Engineering. $7,700,000 is contemplated in the next few years in the College's program which began in 1954. We, in Chemical Engineering, will always be indebted to him.

THE PRESIDENT'S CABINET AND THE COLLEGE OF ENGINEERING'S EXECUTIVE STAFF

We are very happy to include in this report photographs of the President's Cabinet and the College of Engineering's Executive Staff. Without the assistance of these loyal supporters of the Department, it would be impossible for us to have the "finest" in Chemical Engineering. This "finest" includes more than just the most outstanding building for Chemical Engineering in the world, but also the staff and above all the best in students.

Along these same lines, it would have been impossible to be where we are now if it had not been for the unselphiness of so many. These are: our staff, our alumni, many persons in Service Department and other departments of the University, persons at other universities, and persons connected with the Chemical Industry. We owe so much to so many.

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND PROJECT 5659: DEPARTMENT OF CHEMICAL ENGINEERING RESEARCH ENDOWMENT FUND

Alumni: We are very much indebted to our alumni who have sent in their contribution to the Chemical Engineering Development Fund Drive. We do know that there are some who are not in a position to give for good reasons such as sickness, recent change of position, too many children being educated, retirement, etc. The only contribution we expect from these are their good wishes for a successful campaign, and we hope and pray that one of these days they will find themselves out of the woods.

Contributions are still coming in from those who have always wanted to give, but have put it off. Pages 1b to 5b give the list of 734 contributors. We would appreciate it, if you would call to my attention misspelling of your name, wrong initials, and above all omission of your name, if you have already contributed.

The plaque giving the names of those who have contributed will be made next summer. If you have not contributed and wish to do so make out your check to:

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (PROJECT 5659),
and address it to Joseph H. Koffolt, 140 West 19th Street, The Ohio State University, Columbus 10, Ohio. We can make the pledge card here. The names of these contributors will also be placed on the plaque.
PRESIDENT'S CABINET - (Left to right) Frederick Stecker, Executive Director; University Relations; Frederic W. Heimburger, Vice President, Instruction and Research; John H. Herrick, Executive Director, Campus Planning; John T. Mount, Vice President and Secretary; Novice G. Fawcett, President; Gordon B. Carson, Vice President, Business and Finance; William S. Guthrie, Executive Dean, Student Relations; Ronald B. Thompson, Executive Dean, Special Services.

COLLEGE OF ENGINEERING EXECUTIVE STAFF - (Left to right) Paul T. Yarrington, Assistant Dean; Marion L. Smith, Associate Dean; Harold A. Bolz, Dean; Robert S. Green, Associate Dean; George M. Lawrence, Assistant Dean and Secretary.

BATTELLE MEMORIAL INSTITUTE GIVES $9000.00 GRANT TO CHEMICAL ENGINEERING DEPARTMENT. Standing left to right - Dean Harold A. Bolz; Joseph H. Koffolt; Dr. Bert D. Thomas, President, Battelle; and President Novice G. Fawcett. This grant will be used for furnishings and equipment for a graduate student laboratory. The laboratory will be known as the Battelle Memorial Institute Graduate Laboratory in Chemical Engineering and will be so designated by a plaque.
The following is a summary of the contributions to date:

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Total number contributing</td>
<td>734</td>
</tr>
<tr>
<td>Total amount pledged</td>
<td>$65,103.12</td>
</tr>
<tr>
<td>Matching contributions by the company</td>
<td>2,237.37</td>
</tr>
<tr>
<td>Total Amount Pledged and Matched</td>
<td>$67,340.59</td>
</tr>
<tr>
<td>Total Amount Paid on Pledged</td>
<td>$58,135.14</td>
</tr>
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<td>Amount still to be paid on pledges(*)</td>
<td>$9,205.45</td>
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We have not sent out a note reminding some of the contributors of their unpaid pledge as some of these are paying their pledges in installments from a 2 to 5 year period, others have indicated that their pledge will be paid when certain stocks they hold will advance in price. If you are not sure whether your pledge has been paid up, we will be happy to inform you, if you write to us.

Contributions of Equipment: We are very thankful to the many companies who have contributed equipment for our laboratories. In many cases the equipment is new, and in others completely reconditioned. The companies are:

- American Potash and Chemical Corp.
- Chemineer Inc.
- E. I. du Pont de Nemours and Co., Inc.
- Food Machinery and Chemical Corp.
- The Standard Oil Co. (Ohio)
- Union Carbide Chemical Co.
- The United States Stoneware Co.

Battelle Memorial Institute Grant to the Chemical Engineering Development Fund

We are also very grateful to Battelle Memorial Institute for contributing $9,000 to our Development Fund. A 4" x 6" plaque is now being prepared which will be placed on the doorway of Room 225. This plaque will read:

"BATTELLE MEMORIAL INSTITUTE
GRADUATE LABORATORY
The Furnishings in This Laboratory Were Contributed to the Department of Chemical Engineering by Battelle Memorial Institute."

Development Fund Committee: We are very much indebted to Deans Bolz, Green and Smith and to our General Alumni Committee consisting of John Smoots, Vice President (Retired), The Standard Oil Company (Ohio); Melvin DeGroote, Vice President (Retired), Tretolite Company; and Harry B. Warner, President, B. P. Goodrich Chemical Company for the many hours they have put on this drive. Also, we are very grateful to the alumni who did an outstanding job in contacting members of their class in their geographical areas. Next year's report will list these men together with a photograph of the plaque.

THE ACE DAY PROGRAM

The ACE Day Program is given on page 4. For the Departmental Technical Program we are very fortunate to have Dr. D. M. Gage, Technical Manager, Electro-chemical Products, Union Carbide Consumer Products Company, Division of Union Carbide Corporation as our speaker. His topic

"FUEL CELLS"

is most timely. An abstract of Dr. Gage's talk is given on the page following the ACE Day Program.

DR. WITHROW'S MINERAL COLLECTION

The family of Dr. Withrow has very generously contributed Dr. Withrow's mineral collection to the Department. Cases for these will be purchased during the coming Spring Quarter and we hope to have all the minerals in these cases by July 1st.
PROGRAM 8TH ANNUAL CONFERENCE FOR ENGINEERS AND ARCHITECTS - 1960

GENERAL PROGRAM
Friday, April 28, 1961

9:00 Registration - Mershon Auditorium
    15th Avenue and North High Street
10:00 General Session - Mershon Auditorium
    Presiding Harold A. Bolz, Dean of College of Engineering
    Welcome - Gordon B. Carson, Vice President of Business and
    Finance, The Ohio State University
    Presentation of Texnikoi Alumni Award
    Comments:
    Address - H. L. Romnes, President of Western Electric
    Company (Topic to be announced January 3, 1961)
11:30 Luncheon Session - Ohio Union Ballroom
    Presiding Marion L. Smith, Associate Dean of College of Engineering
    Address - Bert L. Thomas, President of Battelle Memorial Institute
    (Topic to be announced later.)

DEPARTMENTAL PROGRAM
DEPARTMENT OF CHEMICAL ENGINEERING
CHEMICAL ENGINEERING BUILDING 140 WEST 19th AVE.
ROOM 207

2:00 Departmental Program
    Presiding: Joseph H. Koffolt, Department Chairman
    Welcome to Alumni and Anniversary Classes of 1911, 1916, 1921,
    1926, 1931, 1936, 1941, 1946, 1951, 1956
    Presentation of Student Awards in Chemical Engineering
    American Institute of Chemical Engineers - Annual Scholarship
    Award
    Central Ohio Section, American Institute of Chemical Engineers -
    National Student Contest Problem Award
    American Institute of Chemists Professional Award
    The Golden Anniversary Class of 1911:
    1. Harry Victor Atkinson (Deceased) 6. Roscoe Conklin Jones
    2. Clem Joseph Burkley (Deceased)    (Deceased)
    3. Howard Dock (Deceased)            7. Clarence Roscoe King
    4. Summer Baar Frank (Deceased)      (Deceased)
    5. Fred Kolb Hauck (Deceased)        8. Carl Donham McGuire
    9. Harry Clifford Mougey
    10. Edward John Franke

2:30 Technical Session
    Presiding: Aldrich Syverson, Professor of Chemical Engineering
    Address: "FUEL CELLS" by Dr. D. M. Gage, Union Carbide Consumer
    Products Co., Division of Union Carbide Corporation

3:30 Open House and Refreshments
    Guided tours of the Chemical Engineering Building by the Ohio
    State Student Chapter, American Institute of Chemical Engineers.
    Arrangements will be made for visitors and alumni to visit
    laboratories and research projects of special interest.
TECHNICAL DEPARTMENT PROGRAM
EIGHTH ANNUAL CONFERENCE FOR ENGINEERS AND ARCHITECTS
FRIDAY, APRIL 28, 1961
2:30 P.M. ROOM 207, CHEMICAL ENGINEERING BUILDING

Presiding: Dr. Aldrich Syverson, Professor of Chemical Engineering

Speaker: Dr. D. M. Gage, Technical Manager, Electrochemical Products, Union Carbide Consumer Products Company, Division of Union Carbide Corporation.

Subject: FUEL CELLS

A VERY CORDIAL INVITATION IS EXTENDED TO ALL INTERESTED TO ATTEND

THIS MEETING

ABSTRACT

The talk will give a brief background on fuel cell history and a brief discussion of the electrochemistry involved. The better known types of fuel cell systems will then be discussed with comments and general remarks on fuel cell economics. The talk will close with a brief look into the crystal ball. It will be illustrated with Vu-Graph 7" x 7" slides.

BIOGRAPHICAL SKETCH

Dr. Gage received his AB degree from the University of Pennsylvania and his PhD in physics from the University of Michigan in 1939. He started work with the Union Carbide Research Laboratory in 1939 and has been in Research Development or Quality work ever since. He has worked on "both sides of the fence", that is, in batteries and in carbon. His current title is Technical Manager, Electrochemical Products. His responsibilities are field contracts on behalf of the Development Laboratory for orientation of further developments and also consumer responsibilities to current developments.
THE DEDICATION OF THE CHEMICAL ENGINEERING BUILDING

As you all know, the building was dedicated May 5, 1960. It was good to have so many alumni and friends present. It was estimated that there were close to 500 persons at the dedication. Pages 1a to 7a give some of the highlights of this very festive occasion. This report also gives photographs taken at the Dedication and dinner which followed at the Jai Lai Restaurant. There were over 250 people at the dinner which was sponsored by the Central Ohio Section, American Institute of Chemical Engineers. The national officers of the American Institute of Chemical Engineers played an important role in the Dedication. They were: Jerry McAfee, President; John Healy, Vice President; W. K. Menke, Director; and our honorary alumnus, Sid Kirkpatrick, Past President.

FELLOWSHIPS, SCHOLARSHIPS, GRANT-IN-AID AND CONTRIBUTIONS TO THE CHEMICAL ENGINEERING DEPARTMENT

Once again, we acknowledge our gratefulness to the companies and agencies listed below, who have done much for our Department. It would be impossible to have a graduate program if it were not for the contributions made by them. Last year this amounted to over $50,000 some of which was used for research equipment. The grants-in-aid were very helpful to us in the several emergencies we had last year. Our University budget was used up due to the tremendous expense in getting our laboratories equipped and in shape for teaching and research work. In one case, a grant-in-aid was very helpful in permitting us to give a fellowship for one quarter to a graduate student whose research problem required more time than his adviser had originally planned.

The following are the names of the companies who have donated scholarships and fellowships to the Department. In some of these cases, the fellowships will be effective this coming year. The many companies giving grants-in-aid are also included.

FELLOWSHIPS:
1. Dow Chemical Company
2. Eastman Kodak Company
4. Esso Research and Engineering Co.
5. General Electric Education and Charitable Fund
6. Lubrizol Corporation
7. Linde Air Products, Div. of U.C.C.
8. Procter and Gamble Company
9. Shell Companies Foundation, Inc.
10. Standard Oil of Indiana (American Oil Company)
11. Ohio State University
12. National Science Foundation
13. Hercules Powder Company

(In some cases, these alternate with a fellowship or supplement a scholarship or fellowship.)

UNDERGRADUATE SCHOLARSHIPS:
1. Chemstrand Corporation
2. Dow Chemical Company* 
3. Monsanto Chemical Company
4. Union Carbide Chemicals Co., Div. of U.C.C.
5. Universal Oil Products

GRANTS-IN-AID:
1. Dow Corning Corporation
2. Univessal Oil Products
3. Hercules Powder Company
4. Mead Corporation
5. National Carbon Co., Div. of U.C.C.
6. Union Carbide Chemicals Corp., Div. of U.C.C.
7. Linde Air Products, Div. of U.C.C.

*The name of the Dow Chemical Scholar given on page 10a is incorrect. It should read "David Fichtner".
DECEASED ALUMNI

The deceased alumni are given on pages 7a and 8a. I am very sorry to report that

DR. HOWARD E. PRITZ, B.Ch.E. '13, M.Sc. '14, Ch.E. '23, Ph.D. '24

died on March 17th. He retired about seven years ago as Vice President and Director of Research of B. F. Goodrich Corporation. As some of us remember, he was an outstanding athlete. I have been told that he is the only man to ever captain three major teams, namely, football, basketball, and baseball. He was the only Chemical Engineer to be elected to the Presidency of the Ohio State University Alumni Association. He will be remembered by many of us as a fine teacher of Chemical Engineering.

THE FIFTIETH ANNIVERSARY CLASSES

As this report is quite voluminous we will give the biographical sketches of Class of 1910, 1911, and 1912 in our next report.

SALARY OFFERS

Everyone graduating in June has at least one offer of a position. As indicated on page 1c many men have received as high as 10 offers. This list was typed on March 10th, since that time, there have been several more offers. There has also been quite a demand for summer students.

WE HAVE THEIR SONS, TOO!

Sons of alumni are now in Chemical Engineering at Ohio State. We are very proud of this. They are: Joseph Dunn (son of Parker Dunn '30), Dennis McAdams (son of Marcellus McAdams '30), Marcellus McAdams' other son, Warren E. McAdams, received his B.Ch.E. June, 1960.), Ted Tucker (son of Bill Tucker '30), Stuart McLellan (son of Ken McLellan '33), Ken McDaniel (son of Ken McDaniel '35), Jerome Mills (son of Paul Mills '36). The Hammonds, Bill and Kay, have their third brother, Myers, in his fourth year. The other triplets were Tony, Jerry, and Johnny Weiss. We are hoping that we will soon have the third generation of the Strobels with us, too.

WITH BEST WISHES TO ALL OF YOU AND LOOKING FORWARD TO SEEING MANY OF YOU BACK WITH US AGAIN ON APRIL 28TH.

MOST SINCERELY,

JOSEPH H. KOFROLT, CHAIRMAN
CHEMICAL ENGINEERING DEPARTMENT

Pl. S. Encluded as a separate report is a series of photographs and cartoons prepared by Julius Feris, Class of '59 and Don Wilhelm, Class of '58. They did this for sentimental reasons of the last days in the old building. It was my thought that many of you would be interested in this.

Harry C. Knight, B.Ch.E. 1909. Was Contract Coordinator, Chemical Warfare Laboratory, Army Chemical Center, Maryland.

Wesley B. Pritz, B.Ch.E. 1909. Was Vice President, National Carbon Company, Cleveland, Ohio.
Dean Harold A. Bolz, presiding at the dedication of the New Chemical Engineering Building. Seated left to right: J. H. Koffolt; Dr. Jerry McAfee, President, A.I.Ch.E. and Vice Pres. Gulf Oil Corp.; Dr. Melvin DeGroote, Vice Pres. Tretolite Co.; Vice Pres. Gordon B. Carson; President Fawcett, Judge Gorman, and Rev. Milton B. McLain, Coordinator of Religious, O.S.U.

President Novice G. Fawcett addressing the group attending the dedication of the new Chemical Engineering Building. (Flowers courtesy of Union Carbide Chemicals Co.)

Vice President Gordon B. Carson in one of the lighter veins of his address. Seated left to right: Dean Bolz, His Excellency Clarence George Issenmann, Joseph H. Koffolt, Dr. Jerry McAfee, Dr. Melvin DeGroote, and Rev. Milton McLain.

"Jewels", future "Jewels", and friends of "Jewels" attending the dedication. (The group seated in the third balcony is not shown.)

Professor Web Kay and Joseph H. Koffolt welcoming the group to the Post Dedication Ceremonies.

The Good and Pretty Ladies had refreshments.

Central Ohio Section, A.I.Ch.E. banquet at the Jai Lai commemorating the dedication of Ohio State's Chemical Engineering Building. Seated left to right at head table: Harry Warner, Mrs. Oxley, Jerry McAfee, Mrs. Hullinger, Lou Hullinger, Joseph H. Koffolt, Mrs. Ellis, F. J. Van Antwerpen, and Mrs. Koffolt.
F. J. Van Antwerpen, Secretary A.I.Ch.E., was in fine fettle. At head tables seated left to right Harry B. Warner; Mrs. Oxley; Jerry McAfee; Mrs. Hullinger; Sid Kirkpatrick; and Joseph H. Koffolt.

Jerry McAfee, President, A.I.Ch.E., in his second appearance and still going strong. Seated left to right Mrs. Hullinger; Sid Kirkpatrick, Joseph H. Koffolt, Mrs. Ellis, and F. J. Van Antwerpen.

Sid Kirkpatrick - "Mr. Chemical Engineering" - Honorary "Jewel" - 1950 the speaker of the evening at "Koffolt's Kollege of Kemical Knowledge". His speech is given in this report. Seated left to right Jerry McAfee, Lou Hullinger, and Joseph H. Koffolt.

Installation of New Officers of the Central Ohio Section A.I.Ch.E.; Dr. Joe Oxley, Vice Chairman (Battelle); Bill Ellis, Chairman (M and R Dietetic Labs.); Lou Hullinger, Past Chairman (Owens Corning Fiberglas); Alex Lemmon, Secretary-Treasurer (Battelle) and Dave Cushing, Executive Committee (Du Pont).