October 27, 1952

ANNUAL REPORT TO THE ALUMNI OF THE CHEMICAL ENGINEERING DEPARTMENT

The twenty-third annual Homecoming of the Department of Chemical Engineering will be held Saturday, November 22, 1952, the day of the Ohio State-Michigan Football game. The formal program will begin at 10:15 a.m.

This homecoming will honor Dr. James R. Withrow, the first chairman of the Chemical Engineering Department. The portrait of Dr. Withrow which was painted by Professor James Hopkins and which was made possible by donations from the alumni will be unveiled and will then be hung in the Department for permanent display.

Dr. Martin Fischer, Professor of Physiology, University of Cincinnati, a long-time friend of Dr. Withrow will speak on "MEN WHO HAVE CHANGED MY MINDS."

The homecoming program will be followed by a luncheon in one of the fine restaurants in the NEW BEAUTIFUL OHIO UNION BUILDING. The cost per plate will be $1.60. It is hoped that all alumni will be present at this luncheon. A hearty and cordial invitation is extended to wives, children, and friends of our alumni and the Department to attend this luncheon. KINDLY SEND RESERVATIONS IN BY ENCLOSED CARD.

A cordial invitation is extended to all Chemical Engineers by Professor Edward Mack, Chairman, Chemistry Department, to attend to formal dedication of the Chemistry Building which will be officially known as THE MCPHERSON CHEMICAL LABORATORY. This program will begin at 9:00 a.m. and be over before 10:00 a.m.

I: THE DETAILED HOMECOMING PROGRAM

8:00 a.m.-12 Noon  Registration - Chemical Engineering Office Room 179.

8:00 a.m.  Informal get together in the Chemical Engineering Laboratories. Professors Kay, Lapple, Syverson, Lemmon, Geankoplis with their graduate students will be available in their laboratories to describe the work they are doing.

9:00 a.m.-10:00 a.m.  Room 100 Chemistry Building. Formal Dedication of and Naming the Chemistry Building as THE MCPHERSON CHEMICAL Laboratory. Auspices Chemistry Department. A cordial invitation is extended to all Chemical Engineers to attend.

FORMAL CHEMICAL ENGINEERING HOMECOMING PROGRAM
HONORING DR. JAMES R. WITHROW
ROOM 100 MCPHERSON CHEMICAL LABORATORY

10:10 a.m.  Words of Welcome-Report to the Alumni on the Status of the Department. Introduction to Staff Members.

10:20 a.m.  THE FOURTH GRADUATE LECTURE IN CHEMICAL ENGINEERING
Sponsored by the Graduate School and the Dept. of Chem. Engineering
"MEN WHO CHANGED MY MIND"

By Dr. Martin Fischer, Professor of Physiology, University of Cincinnati. (Further details of Dr. Fischer and this address are given in this report).

11:00 a.m.  UNVEILING OF THE PORTRAIT OF DR. JAMES R. WITHROW
Remarks by Chemical Engineering Alumni

11:15 a.m.  Response-Dr. James R. Withrow

12:00  Adjournment. West Ball Room. New Ohio Union Building.

Chemical Engineering Luncheon. West Ball Room New Ohio Union Bldg. $1.60 per plate. A hearty and cordial invitation is extended to wives, children, and friends to attend this Luncheon. KINDLY SEND RESERVATIONS IN BY ENCLOSED CARD AS RESERVATIONS MUST BE MADE WITH THE OHIO UNION BY NOVEMBER 18th.
II. DIRECTORY CARDS. Enclosed is a directory card. We would appreciate your cooperation in returning it as soon as possible. It is quite helpful in keeping our directory up to date. Your cooperation in helping us locate our "strayed, lost, or stolen" chemical engineers will again be appreciated.

III. DEPARTMENTAL STAFF

There has been no major changes since the last report. We believe we have an excellent balanced staff. They are:-

Joseph H. Keffer, Chairman and Professor
James R. Withrow, Professor (Emeritus)
L. Kermit Herndon Professor (Part Time)
Webster E. Kay, Professor
Charles E. Lapple Associate Professor
Aldrich Syverson, Associate Professor
Thomas Kerr, Research Associate Professor
Peter O. Krumin, Research Assoc. Professor
Christie J. Geankoplis, Asst. Professor
Alex W. Lemon Jr. Assistant Professor
Edwin E. Smith, Assistant Professor
Waldron Sheets, Res. Asst. Professor
Charles Rebert, Instructor
Mary Wing Robb, Assistant
H. Stelzer, Assistant
R. Serfass, Assistant
L. Flanagan, Graduate Assistant
William Maas, Graduate Assistant
Rita Devicier, Stenographer
Evelyn Hoyle, Typist
Keldon Lathan, Mechanic

IV. FELLOWSHIPS AND SCHOLARSHIPS

The fellowships and scholarships in the Department are given below. The University and the Department is very appreciative of the contributions made by industry in encouraging graduate work in Chemical Engineering at the Ohio State University. It will be noted that last year there were 6. This year there are 15 or a 200% increase over last year. The Department will always be happy to discuss the details of scholarships and fellowships.

We are happy to report that the Carbide and Chemicals Company, A division of Union Carbide and Carbon Corporation have established an undergraduate scholarship in mechanical and chemical engineering. This is rotating - The Scholar this year is from Mechanical Engineering while next year it will be from Chemical Engineering.

FELLOWS AND SCHOLARS IN CHEMICAL ENGINEERING

1: American Cyanamid Fellow in Chemical Engineering, Edward H. Bollinger
2: Battelle Memorial Fellow in Chemical Engineering, Carl S. Schlea
3: Battelle Memorial Fellow in Chemical Engineering, David Stephan
4: Du Pont Fellow in Chemical Engineering, Doyle Potter
5: Ethyl Corporation Fellow in Chemical Engineering, Roland G. Lindsey
6: Procter and Gambil Fellow in Chemical Engineering, Robert E. Weiser
7: Shell Oil Company Fellow in Chemical Engineering, Bruce W. Wilkinson
8: University Fellow, Walter E. Donham
9: Research Foundation Fellow, Masters Builders, William Overton
10: Research Foundation Fellow, Bruce D. Giles
11: Public Law 265 Scholar (Finland), Kauko C. Salmilin
12: Fulbright and Ford Foundation Fellow, Manoj Kumar Singhvi
13: University Scholar, Kenneth E. Whitehead
14: Lazarus Scholar, John G. Mahoney
15: Engineering Experiment Station Fellow (Trade Waste), James L. Wilson

V. RESEARCH FOUNDATION. In addition to the two Research Foundation Fellowships mentioned above, The Supervisor, Research Associates, and Research Assistants include the following:

1: Research Supervisors ........................................ 4
2: Research Associates ......................................... 12
3: Research Assistants ........................................ 9
4: Technical Assistant and Secretary .......................... 2

Total ....... 27
VI: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS.

Officers. We are very proud indeed that Ohio State has two national officers in the American Institute of Chemical Engineers namely Wm. I. Burt, Vice President, Manufacturing B. F. Goodrich Chemical Company as Ohio State's first PRESIDENT of the Institute, and C. R. DeLong, Vice President, North American Solvay Inc. as TREASURER.

Membership. The membership committee of the American Institute of Chemical Engineers reports that OHIO STATE UNIVERSITY'S 1951 graduates in Chemical Engineering had for all practical purposes the highest percentage applying for membership. Seventy two (72) percent of this class applied for Junior membership. Rice Institute, Texas, had 100%.....they graduated only one man. There were 94 schools in the list. The overall percentage of the 94 schools was 18.3%.

The June class, 1952, who call themselves "THE CLASS OF CHAMPIONS" are now up to 65% according to Phil Walden last year's president, Glancy, Pendelton and others, say they will hit 100% before the year is over.

We will be happy indeed to send application blanks for Junior, Associate and active membership to any of our alumni who are interested in joining the American Institute of Chemical Engineers.

THE OHIO STATE UNIVERSITY STUDENT BRANCH. As stated above the Class of 1952 call themselves the CLASS OF CHAMPIONS. They have won at least 8 awards last year.

1: The Engineers' Round Up was revived in 1952 (the class of 1932 will remember that it was abandoned then). The Student Branch redeemed itself and took FIRST PLACE.
2: In Intramural Athletics the Student Branch won five championships in competition with other engineering societies, organizations and fraternities.
3: The Student Branch took first place in the Float for Engineer's Day in competition with other engineering societies, fraternities, and organizations in the College of Engineering.
4: One of the members of the class will be nationally honored by the American Institute of Chemical Engineers at their annual meeting in Cleveland in December. Official publicity concerning this will be announced by Steve Tyler's office in December.
5: They claim that they will take first place in membership to the institute and will even beat the outstanding record made by the Class of 1951.

WE ARE STILL PRODUCING "JEWELS".

VII: EMPLOYMENT AND PLACEMENT OF CHEMICAL ENGINEERS.

This report gives the names of the graduates in Chemical Engineering who received their degrees this past year. It also gives their job location. According to Miss Bradshaw, Director of Engineering Placement, there were over 450 companies interviewing engineers this past year. If every company who had made offers obtained its equal quota of engineering graduates there would have been ONE-FIFTH (1/5) of engineer per company. The following other statistics compiled by Miss Bradshaw are very interesting: These include all branches of Engineering:

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Number of Graduates 1951-1952</td>
<td>427</td>
</tr>
<tr>
<td>Veterans</td>
<td>284</td>
</tr>
<tr>
<td>Non-Veterans</td>
<td>143</td>
</tr>
<tr>
<td>Married</td>
<td>196</td>
</tr>
<tr>
<td>Single</td>
<td>235</td>
</tr>
<tr>
<td>Divorced</td>
<td>2</td>
</tr>
<tr>
<td>Total Number of Children</td>
<td>99</td>
</tr>
<tr>
<td>Age of Graduates</td>
<td></td>
</tr>
<tr>
<td>21 to 25</td>
<td>242</td>
</tr>
<tr>
<td>25 to 30</td>
<td>196</td>
</tr>
<tr>
<td>30 to 42</td>
<td>30</td>
</tr>
<tr>
<td>42 to 49</td>
<td>29</td>
</tr>
</tbody>
</table>

Federal Employment..................10
State Employment....................16
Industrial Employment..............281
Graduate Work.......................14
Military Service....................48
IX. MAILING. It would be good for all of our hearts if on one of these "Annual Reports to the Alumni" we would devote a section to the so called "Letters to the Editor" or should we say the "Old American Custom of Gripping... or Letting Off Steam". We have a collection of good ones which should be framed.

Last year this annual report was sent out third class on November 2. This was done to save the University stamp money. The Postoffice assured us that practically all should be delivered by November 8th. However, some reported that this report was received with their Christmas cards. One in South Columbus was delivered in January. It was our thought that perhaps a "canal boat" was used. One in Cleveland was received January 25th. We are sure that delivery was not by "dog sled" as there was no snow on the 3C highway in this period. We are sending the notice of this report first class mail. Thanks to Acting Dean Lawrence Jones of our College of Engineering, and Mr. George Siebert, our very cooperative purchasing agent. We hope that everyone will return the enclosed directory card. (We have to show a return on the investment in first class postage).

X: DEAN CHARLES E. MACQUIGG. We are very sorry to report that Dean Charles E. MacQuigg, Dean of the College of Engineering since 1937 died on April 17th, after an illness of one month. His loss to the college will long be felt. He was endowed with all the good humane characteristics which have brought many honors to our College of Engineering through its BUCKEYE ENGINEERS - "Technically - the Salt of the Earth but Above All an Understanding of Human Nature, Justice and Kindness".

We are happy to report that the "skipper" of our College of Engineering is now in the hands of one of the most versatile members of our faculty. ACTING DEAN LAWRENCE JONES. He is doing an outstanding job in this "ad interim period" in the search of a new Dean. We are sure that our new Dean will have the stature of other Deans of the College of Engineering as MacQuigg, Hitchcock, and Orton.

XI. THE WEATHER. Mrs. Robb called the Weather Bureau to find out whether November 22 will be another "Snow Bowl". Our weatherman assured her that on this day (in contrast to 1950) there would be a "Hot Time in the Stadium". The B.t.u.'s from which would permeate or diffuse throughout the State and also those adjacent. He predicts September in November. ("Cum Salis Granis")

WITH BEST WISHES TO ALL OF YOU AND LOOKING FORWARD TO YOUR COMING BACK TO THIS HOMECOMING TO PAY YOUR RESPECTS TO AND HONOR

DR. JAMES R. WITHROW

Be with us November 22nd even if you are not going to the game.

Most Cordially yours,

Joseph H. Koffolt, Chairman,
Chemical Engineering Department

JHK: red
### TABLE 2

**BACHELOR OF CHEMICAL ENGINEERING GRADUATES**

<table>
<thead>
<tr>
<th>B.Ch.E.'s Autumn Quarter, 1951</th>
<th></th>
<th>B.Ch.E.'s Winter Quarter, 1952</th>
<th></th>
<th>B.Ch.E.'s Spring Quarter, 1952</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Leslie, Richard</strong></td>
<td>The Steel Products Inc., Columbus, Springfield, Ohio</td>
<td></td>
<td>City of Columbus Waterworks, Columbus, Ohio</td>
<td></td>
<td>Industry in Iraq</td>
</tr>
<tr>
<td><strong>2. Sobala, Henry</strong></td>
<td>Shell Chemical Corporation, Houston, Texas</td>
<td></td>
<td></td>
<td></td>
<td>Columbia-Southern Chemical Co., Barberton, Ohio</td>
</tr>
<tr>
<td><strong>4. Svoboda, Clarence</strong></td>
<td>The Ohio Rubber Company, Willoughby, Ohio</td>
<td></td>
<td></td>
<td></td>
<td>Chemicals Division, Texas City, Texas</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B.Ch.E.'s Summer Quarter, 1952</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th>Phillips Chemical Company, Houston, Texas</th>
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<tbody>
<tr>
<td><strong>1. Fetter, Clayton</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>B. F. Goodrich Chemical Co., Avon Lake, Ohio</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Union Carbide and Carbon Corporation, Bakelite Company Division, Bound Brook, New Jersey</td>
</tr>
<tr>
<td><strong>2. Al-Ahmad, Hamid</strong></td>
<td>Industry in Iraq</td>
<td></td>
<td></td>
<td></td>
<td>Shell Chemical Co., Houston, Texas</td>
</tr>
<tr>
<td><strong>3. Aldrich, Robert</strong></td>
<td>Columbia-Southern Chemical Co., Barberton, Ohio</td>
<td></td>
<td></td>
<td></td>
<td>Shell Chemical Co., Houston, Texas</td>
</tr>
<tr>
<td><strong>4. Bohnsly, Ed</strong></td>
<td>Union Carbide and Carbon Corp., Carbid and Carbon Chemicals Division, Texas City, Texas</td>
<td></td>
<td></td>
<td></td>
<td>Phillips Chemical Co., Demas, Texas</td>
</tr>
<tr>
<td><strong>5. Bottenfield, Bill</strong></td>
<td>Mead Corporation, Chillicotho, Ohio</td>
<td></td>
<td></td>
<td></td>
<td>General Tire and Rubber Co., Akron, Ohio</td>
</tr>
<tr>
<td><strong>6. Brodeur, Madro</strong></td>
<td>American Bitumuls and Asphalt Co., Columbus, Ohio</td>
<td></td>
<td></td>
<td></td>
<td>General Tire and Rubber Co., Akron, Ohio</td>
</tr>
<tr>
<td><strong>7. Cheney, John</strong></td>
<td>Wyandotte Chemical Corporation, Wyandotte, Michigan</td>
<td></td>
<td></td>
<td></td>
<td>Union Bag and Paper Co., Savannah, Georgia</td>
</tr>
<tr>
<td><strong>9. Fair, Donald</strong></td>
<td>Battelle Memorial Institute, Columbus, Ohio</td>
<td></td>
<td></td>
<td></td>
<td>Graduate Work, Ohio State University</td>
</tr>
<tr>
<td><strong>10. Geaman, J. Richard</strong></td>
<td>Ethyl Corporation, Detroit, Michigan</td>
<td></td>
<td></td>
<td></td>
<td>B. F. Goodrich Chemical Co., Louisville, Kentucky</td>
</tr>
<tr>
<td><strong>12. Couch, James</strong></td>
<td>Phillips Chemical Company, Houston, Texas</td>
<td></td>
<td></td>
<td></td>
<td>Dow Chemical Co., Freeport, Texas</td>
</tr>
<tr>
<td><strong>14. Hatfield, Paul</strong></td>
<td>Union Carbide and Carbon Corporation, Bakelite Company Division, Bound Brook, New Jersey</td>
<td></td>
<td></td>
<td></td>
<td>E. I. duPont Co., Electrochemicals Dept., Niagara Falls, N.Y.</td>
</tr>
<tr>
<td><strong>15. Haupt, Donald</strong></td>
<td>Shell Chemical Co., Houston, Texas</td>
<td></td>
<td></td>
<td></td>
<td>E. I. duPont Co., Electrochemicals Dept., Niagara Falls, N.Y.</td>
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<tr>
<td><strong>22. Orfanides, Steven</strong></td>
<td>Graduate Work, Ohio State University</td>
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<td></td>
<td></td>
<td>E. I. duPont Co., Electrochemicals Dept., Niagara Falls, N.Y.</td>
</tr>
<tr>
<td><strong>24. Patterson, Leland</strong></td>
<td>Shell Oil Company, Houston, Texas</td>
<td></td>
<td></td>
<td></td>
<td>E. I. duPont Co., Electrochemicals Dept., Niagara Falls, N.Y.</td>
</tr>
<tr>
<td><strong>25. Pendleton, Elmer</strong></td>
<td>Dow Chemical Co., Freeport, Texas</td>
<td></td>
<td></td>
<td></td>
<td>E. I. duPont Co., Electrochemicals Dept., Niagara Falls, N.Y.</td>
</tr>
<tr>
<td><strong>32. Zini, Fajnallah</strong></td>
<td>Picatinny Arsenal, Dover, New Jersey</td>
<td></td>
<td></td>
<td></td>
<td>E. I. duPont Co., Electrochemicals Dept., Niagara Falls, N.Y.</td>
</tr>
</tbody>
</table>

| **2. Knapp, Wilbur**          | Phillips Chemical Company, Pasadena, Texas |  |  |  | Picatinny Arsenal, Dover, New Jersey |
| **3. Schramm, Paul**          | Phillips Chemical Company, Pasadena, Texas |  |  |  | Picatinny Arsenal, Dover, New Jersey |
| **4. Higginbotham, Cory**     | Libbey-Owens Glass Co., Toledo, Ohio |  |  |  | Picatinny Arsenal, Dover, New Jersey |
### Summary of Chemical Engineering Degrees Granted 1948 to Date

<table>
<thead>
<tr>
<th>YEAR</th>
<th>B.Ch.E</th>
<th>B.Ch.E. M.Sc. Combined</th>
<th>M.Sc.</th>
<th>Ph.D.</th>
<th>Total</th>
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<tr>
<td>1947-48</td>
<td>36</td>
<td>---</td>
<td>58</td>
<td>4</td>
<td>148</td>
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<tr>
<td>1948-49</td>
<td>81</td>
<td>---</td>
<td>42</td>
<td>9</td>
<td>133</td>
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<tr>
<td>1949-50</td>
<td>34</td>
<td>18</td>
<td>29</td>
<td>19</td>
<td>102</td>
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<tr>
<td>1950-51</td>
<td>33</td>
<td>27</td>
<td>26</td>
<td>22</td>
<td>102</td>
</tr>
<tr>
<td>1951-52</td>
<td>42</td>
<td>11</td>
<td>8</td>
<td>8</td>
<td>69</td>
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<tr>
<td>1952-53</td>
<td>22</td>
<td>12</td>
<td>20</td>
<td>10</td>
<td>584</td>
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### Enrollment College of Engineering - Autumn Quarter 1952

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<tr>
<th></th>
<th>1st Yr.</th>
<th>2nd Yr.</th>
<th>3rd Yr.</th>
<th>4th Yr. B.S. M.S.</th>
<th>5th Yr. B.S. M.S.</th>
<th>Total</th>
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<tr>
<td>Aeronautical Agriculture</td>
<td>57</td>
<td>30</td>
<td>14</td>
<td>24 1</td>
<td>8 4</td>
<td>138</td>
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<tr>
<td>Architecture</td>
<td>47</td>
<td>33</td>
<td>28</td>
<td>36 34</td>
<td></td>
<td>178</td>
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<td>Landscape</td>
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<td>7</td>
<td>9</td>
<td>7</td>
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<tr>
<td>Ceramic Glass Tech.</td>
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<td>6</td>
<td>8</td>
<td>9 2</td>
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<td>Chemical</td>
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<td>27</td>
<td>24</td>
<td>4 7</td>
<td>21 11</td>
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<tr>
<td>Civil</td>
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<td>Electrical</td>
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<td>55</td>
<td>29</td>
<td>43 4 25 2</td>
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<td>Industrial</td>
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<td>Mechanical</td>
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<td>66</td>
<td>57</td>
<td>41 5 44 7</td>
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<td>338</td>
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<td>Metallurgy</td>
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<td>9</td>
<td>11</td>
<td>9 7</td>
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<tr>
<td>Mining</td>
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<td>4</td>
<td>1 5</td>
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<td>Petroleum</td>
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<td>5 2 5</td>
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<td>Welding</td>
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<td>Chom. &amp; Metal</td>
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<tr>
<td>Elec. &amp; Physics</td>
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<tr>
<td>Ind. &amp; Mech.</td>
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<tr>
<td>Undecided</td>
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<td>5</td>
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<td>197</td>
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<tr>
<td><strong>TOTALS</strong></td>
<td>704</td>
<td>395</td>
<td>287</td>
<td>266 30</td>
<td>237 43</td>
<td>1962</td>
</tr>
</tbody>
</table>

### Special

- 17

### Transient

- 2

### Twilight

- 291

**Grand Total**

- 2272
MASTER OF SCIENCE CHEMICAL ENGINEERING GRADUATES

Master of Science Degree, Autumn Quarter, 1951

1. Overton, William  
   Research Fellow (to Ph.D.) OSU, Chemical Engineering  
   Masters Building Fellowship

Master of Science Degree, Winter Quarter, 1952

1. Mueller, William  
   Battelle Memorial Institute, Columbus, Ohio
2. Smith, A. Alan H.  
   Naval Ordnance Test Station, Inyokern, China Lake, Calif.

Master of Science Degree, Spring Quarter, 1952

1. Bazler, Seward  
   General Electric Co., Chemical Division, Coshocton, Ohio
2. Heidenreich, Allan  
   Jefferson Chemical Co., New York City
3. Snelling, Geoffrey  
4. Sudak, Richard  
   General Electric Co., Nucleonics Division, Hanford, Wash.

Master of Science Degree, Summer Quarter, 1952

1. Harg, Richard  
   Assistant Professor, Engineering Drawing Dept., OSU
2. Choudhury, Roy  
   Graduate Work

COMBINED B.S., B. CHE. AND MASTER OF SCIENCE DEGREES, SPRING 1952

1. Abdullah, K. O.  
   Industry in Iraq
2. Froning, James  
   Procter and Gamble Company, Cincinnati, Ohio
3. Koerner, Vance  
   Union Oil Co. of California, Long Beach, Calif.
4. Ramothaler, Jack  
5. Ruscall, Alfred  
   Standard Oil of Indiana, Wood River, Illinois
6. Schlee, Carl  
   To Ph.D. Battelle Memorial Fellow in Chemical Engineering
7. Schmitz, Charles  
   B. I. duPont Co., Grasselli Chemical Dept., Cleveland, Ohio  
   (First U. S. Navy)
8. Stephan, David  
   Ohio State University Graduate School to Ph.D.  
   Battelle Memorial Fellow
9. Temple, Clark  
   Merck and Company, Rahway, New Jersey
10. Walden, Philip  
    Union Carbide and Carbon Corp., Carbide and Carbon  
    Chemicals Division, P.O. Box 370, Tuckerton, N. J.
11. Voit, Harvey  
    Columbia-Southern Chemical Corp., Corpus Christi, Texas

PH.D. CHEMICAL ENGINEERING GRADUATES

Ph.D.'s Autumn Quarter, 1951

1. Bierlein, James  
   Wright Patterson AFB, Dayton, Ohio
2. Dewey, Donald  
   Grasselli Chemical Dept., B. I. duPont de Nemours and Co.,  
   Cleveland, Ohio
3. Dryden, Charles  
   Battelle Memorial Institute, Columbus, Ohio
4. Harshman, Richard  
   Mathieson Chemical Corp., Grand Island, New York
5. Lewis, George  
   B. I. duPont de Nemours and Co., Old Hickory, Tenn.
6. McIntyre, Louis  
   Mathieson Chemical Corp., Lafayette, Indiana

Ph.D.'s Summer Quarter, 1952

1. Hill, Robert  
   Monsanto Chemical Co., Nitro, West Virginia
2. Morningstar, Migrants  
   Mathieson Chemical Corp., Niagara Falls, N. Y.
THE FOURTH CHEMICAL ENGINEERING LECTURE

SPONSORED BY

THE DEPARTMENT OF CHEMICAL ENGINEERING

AND

THE GRADUATE SCHOOL

THE OHIO STATE UNIVERSITY

LAD WHO HAVE CHANGED MY MIND

DR. MARTIN FISCHER

PROFESSOR OF PHYSIOLOGY

UNIVERSITY OF CINCINNATI

AT

THE TWENTY THIRD ANNUAL CHEMICAL ENGINEERING HOMECOMING

SATURDAY, NOVEMBER 22, 1952

ROOM 100, MCPHERSON CHEMICAL LABORATORY 10:40 A.M.

HONORING

DR. JAMES R. WITHROW

AND ON THE OCCASION OF THE UNVEILING OF HIS PORTRAIT

ABOUT THE SPEAKER

It is good and fitting that the speaker on our twenty third homecoming is the eminent Dr. Martin Fischer....a friend of Dr. James R. Withrow for many years. He was born at Kiel, Germany; came to the United States at the age of six; received his M.D. degree from Rush Medical School, Chicago; honorary D.Pharm., Cincinnati College of Pharmacy; honorary D.Sc. from Wittenberg College. He did postgraduate work in Austria and Germany. He was a professor in physiology and pathology at Rush Medical School, University of Chicago, University of California, Oakland College of Medicine and Surgery. Dr. Fischer was Cutter Lecturer at Harvard; lecturer on Fine Arts at the University of New York. Recipient of many prizes and gold medals as Hatfield Prize, College of Physicians, Philadelphia; Cartwright Prize, Alumni College of Physicians and Surgeons, New York; gold medal for research, American Medical Association; International Prize, Koloid Gesellschaft; the Ohio Award, American Institute of Chemists; and many more. His work has been translated into German, Russian and Japanese.
He has contributed papers concerned with normal and abnormal anatomy, artificial parthenogenesis, diabetes; a colloid chemical theory of water absorption by living matter and its application to edema, glaucoma, hemolysis, nephritis and uremia; emulsion chemistry; surgical principle as applicable to dental practice; the colloid chemistry of soaps and proteins and a theory of lyophilic colloids as based upon the characteristics of mutually soluble systems; technique of the fine arts and scientific study of its materials; the physico-chemical nature of protoplasm and its contained ferments.

Dr. James R. Withrow has written a classic paper on Dr. Martin H. Fischer in the August, 1952 issue of THE OHIO ECT. This paper was based on the presentation given by Dr. Withrow on the occasion of the presentation of the Ohio Award to Dr. Martin Fischer, April 25, 1952 at Dayton, Ohio.

Martin Fischer is not merely a contributor to biology, medicine, and colloid chemistry but is also a painter. His book "The Permanent Palette is a best seller and is used in text in various art academies. He has also become prominent in the field of biography. He is a literary master and Philosopher. His book "Fischerisms" is applicable to Chemical Engineering. Here are some of his Fischerisms:

"Sure you can Psychoanalyze, but as Sehr used to say, why bother to sort garbage."

"Essential Hypertension is essential ignorance."

"Knowledge is a process of piling up facts; wisdom lies in their simplification."

"Principles are the important things; the more you have of them, the more knowledge you can carry."

"When there is no explanation they give it a name, which immediately explains everything."

"None of the great discoveries was made by specialists or researchers."

"Every discovery in science is a tacit criticism of things as they are. That is why the wise man is invariably called the fool."

"I find four great classes of students: The dumb who stay dumb The dumb who become wise The wise who go dumb The wise who remain wise."

"Morphine and NRA work the same way. You go dopey, feel better and are worse off."

"Even an ass can die with a degree. All it takes is four years and four thousand dollars."

"Standardization is the fertilizer of university education. A little may be useful, but flowers do not grow in pure manure."
"Specialists never contribute anything to their specialty! Helmholtz wasn't an eye-specialist, but a German army doctor who invented the ophthalmoscope on Saturday afternoon when there wasn't anything else to do. Incidentally, he rewrote whole chapters of physics, so that the physicists only know him as one of their own. And Robert Mayer wasn't a physicist, but another country doctor; and Pasteur, who made bacteriology, was a tanner's son or a chemist, as you will."

"None of the great parties has ever struggled for my vote. I am a Cleveland, free trading, nonimperialistic, good Democrat. That's the dodo, I guess."

ABOUT THE LECTURE

MEN WHO CHANGED MY MIND

Dr. Fischer speaks of the privileges he enjoyed by being permitted to sit with the great men (and women) of his time. It began for him in high school when several of his teachers carried nationally and even internationally known names (Linebarger, Perrine, del Fontaine, Louella Chapin, Mary Wiggins and Harriett C. Moody).


Walter Stanley Haines, technically; the professor of chemistry in Rush Medical College, was really the professor of a dozen of the medical disciplines. Similarly affected were Christian Fenger, Nicholas Senn, Frank Billings and J. B. Herrick.

A scholarship twice took Fischer to the Marine Biological Station in Wood's Hole, from where in 1902 he was catapulted into an assistant professorship in physiology in the University of California in Berkeley. Here is where, following the Congress in the St. Louis World's Fair, Wilmott Ostwald, Svante Arrhenius and Hugo de Vries became known to him. Through the last named, the California horticulturist, Luther Burbank, received Carnegie Foundation support.

Wilhelm Ostwald was a great family. Of them Wolfgang Ostwald is the best known, Fischer knew him first as a fellow in physiology in the University of California in 1904. Though but twenty-one he was already famous for his biological observations on the depth migrations of the plankton. He and Fischer joined in a paper concerned with the colloid-chemical nature of fertilization, result of which was that Fischer was fired. It compelled him into medical practice and travel in Europe. Appointed to the headship in pathology in the Oakland College in Medicine in 1905 he was called from there to head the department of physiology in the University of Cincinnati from which he then came to know another group of great men. In this list stood Charles, Franklin Kettering, Thomas Midgley, Casper L. Redfield.
Abbott H. Tafer, John Uri Lloyd, Willis R. Whitney and Emil Fischer. Martin Fischer is classified with the colloid chemists to whose championship a best beginning is made today by reference to Franz Hofmeister and his eminent pupils, Carl Spric and Wolfgang Pauli. Picton and Lindner and William B. Hardy did this for their compatriot, the star of them all, Thomas Graham. Add the names of Zsigmondy and von Weimarn and you arrive at a fair picture of the fact that not governments, groups, commissions or committees build science, but only silent and forgotten men.
THE OHIO STATE UNIVERSITY

BACHELOR OF CHEMICAL ENGINEERING GRADUATES

1952-1953

B.Ch.E.'s Autumn Quarter, 1952

2. Cosgrove, Donald V. U.S. Steel Company, Youngstown, Ohio
3. Slyker, Richard Allen Shell Chemical Co., Houston, Texas

B.Ch.E.'s Winter Quarter, 1953

None

B.Ch.E.'s Spring Quarter, 1953

1. Bazell, Graydon C. Allied Chemical & Dye, Semet Solvay, Ironton, Ohio
2. Beals, Richard Nathan Shell Chemical, Houston, Texas and U.S. Navy (Ensign)
3. Bishop, John VanBramer Dow Chemical, Midland, Michigan
4. Bowers, Donald Leroy E. I. duPont, Polychemicals, Orange, Texas and U.S. Navy (Ensign)
5. Buskirk, David E. General Motors, Delco Div., Anderson, Indiana
8. Findlay, Donald E. Dow Corning, Midland, Michigan
10. Peoples, Leo Clark R.C.A., Marion, Ind. and U.S. Navy (Ensign
11. Reinmuller, Ernest Hobart Brothers Co., Troy, Ohio
12. Williams, A. E. Linde Air Products, Tonawanda, N. Y.

B.Ch.E.'s Summer Quarter, 1953

1. Ahearn, Lee F. National Carbon Co., Freemont, Ohio
2. Bighouse, Robert L. Carbide and Carbon Chemicals, S. Charleston, West Virginia
3. Potter, Willard H. Goodyear, Akron, Ohio

M.S.CHEMICAL ENGINEERING GRADUATES

1952-1953

M.Sc.'s Autumn Quarter, 1952

None

M.Sc.'s Winter Quarter, 1953

1. Ling, Wilfred Chen-Sun Abbott Laboratories, Chicago, Ill.
M.Sc.'s Spring Quarter, 1952

None

M.Sc.'s Summer Quarter, 1953

1. Elsässer, Louis Capt. U.S. Army Chem. Warfare, Army Chemical Center, Maryland
2. Ernstine, Norman N.A.C.A., Cleveland, Ohio
5. Whitehead, Kenneth E. North American Cyanamid, Canada
6. Wilson, James L. Standard Oil (Indiana), Whiting, Ind.

COMBINED BACHELOR AND MASTER OF SCIENCE GRADUATES

Spring Quarter, 1953

1. Bates, Robert A. Procter & Gamble, Cincinnati, Ohio
2. Briggs, Roger L. Dow Chemical, Midland, Michigan
5. Koch, George Edward Dow Chemical Co., Midland, Michigan
7. MacDougall, Donald A. Standard Oil of Indiana, Whiting, Ind.
8. Mahoney, John G. Eastman Kodak Company, Rochester, N.Y.
9. Tashihara, Thomas F. (to Ph.D.)
10. Wiseman, Robert Mead Corporation, Chillicothe, Ohio

PH.D. CHEMICAL ENGINEERING GRADUATES

1952-1953

Ph.D.'s Autumn Quarter, 1952

1. Setzer, Carl John, Jr. Chemstrand Corp., Decatur, Alabama

Ph.D.'s Winter Quarter, 1953


Ph.D.'s Spring Quarter, 1953

1. Celli, Felice Mathieson Chemical Corp., Columbus, O.
2. Donham, Walter E. Ethyl Corp., Baton Rouge, Louisiana

Ph.D.'s Summer Quarter, 1953

1. Krane, Herbert G. Standard Oil of Indiana, Whiting, Ind.