Diamond Jubilee
Sixty Year Legacy
Department of Chemistry
1947 – 1993

Department of Chemistry and Biochemistry 1993 - present

Most quotes and photos are from the *UMD Chronicle* 1951 - 72
History of the Department of Chemistry:
Building a Foundation and Leaving a Legacy

- 1895: Duluth Normal School
- 1921: Duluth State Teacher’s College
- 1947: University of Minnesota Duluth
The Physical Foundation

Lower Campus on E. 5th Street
Old Main, Washburn & Torrance Halls
Lower Campus Today
UMD Science Building @ 1948
1952

Provost King showing the future “UMD - 1970” to Harold E. Stassen.
1952

“Brr, what a blizzard! I wish I didn’t have to go all the way from Olcott to the Science Building. Guess I’ll cut my biology class today.”

These may be familiar words today, but they will be unheard of in 1970. The reason is explained to Harold E. Stassen by Provost King. The model plan has such features as cottage-like dorms built against a slope for protection against the biting northwest winds and yet for taking full advantage of the winter sun. Window-wall corridors will make it unnecessary for anyone to venture out into bad weather when going from one building to another. And then there will be a completely equipped auditorium with 3500 seats and full stage facilities.

It sounds like a dream now, but just wait until 1970 to see it for yourself.
1953 Aerial View
1958
The Foundation of Programs and Values
Chemistry in the Early 1950’s

John C. Cothran, Chairman,
Division of Science & Mathematics
Francis (Red) B. Moore

Head of Chemistry, 1952-72

Legacy: Commitment to Teaching and Students (Panel at 1 pm)

Chemistry Club, “a professional Organization, a jumping stone to the ACS.” Members sponsored field trips and invited area industrial speakers.

1956-57 Chronicle
Moses Passer

Mentored many undergrads who worked on his peat analysis research projects.

Legacy: Commitment to Undergraduate Research (Panel at 1:45 pm)

Science Building, symbol of future UMD

1953-54 Chronicle
James C. Nichol hired 1957 - 58

Physical Chemist
J.C. Nichol was hired nearly 60 years ago.

Science 200
(now Kobilka Hall)

60 = Diamond Anniversary!
1958 – 1959 Chemistry Faculty

Glenn Christensen - Edward J. Cowles - Anna M. Duvall

Francis (Red) B. Moore

James Glick- James C. Nichol - Moses Passer – Russell H. Schmidt
1958 -1959 Chemistry Club


James Irving Swenson
Superior WI
BA Chemistry
Math Minor
Larry C. Thompson hired 1960 - 61

F.J. Glick, L. Thompson (inorganic), G. Christensen, F.B. Moore, A. Duval, E. Cowles, J. Nichol, M. Passer
Donald K. Harriss hired 1963 - 64

- Row 1: J.C. Nicol, A. Duval, **D.K. Harriss (physical)**, G. Christiansen
- Row 2: L. C. Thompson, E.C. Cowles, M. Passer, F. B. Moore, J. Glick
M.S. – Chemistry
February 1964

- First master’s degree in the sciences and the first to offer a Plan A research-based M.S. at UMD.
- The first graduate students started in Fall 1964 with the first student, L. Blokzyl, completing his M.S. in 1967 in organic chemistry in Ron Caple’s laboratory.
- Legacy: Commitment to Graduate Education and Research (Panel at 3:00 pm)
T.J. Bydalek & R. Caple hired 1965-66

Row 1: F.J. Glick, D. Harriss, R. Russo, A. Duval
Row 2: T. Bydalek (analytical), E. Cowles. R. Caple (organic), F. Moore, L. Thompson
Science and Math Grow in Research 1965 - 1966

Expansion and research are the key words in the Science and Mathematics division. The chemistry graduate course has been expanded to organic as well as inorganic and physical chemistry. Students, faculty, and the business office make use of the 1620 computer. Another new feature of the division is the metal working shop. The scientists and mathematicians have research contracts from the National Science Foundation, United States Public Health Service, American Chemical Society, and Office of Naval Research. A summer institute for high school mathematics teachers was held this year. Construction of a million-dollar life science building, which provide new biology quarters, begins this spring.
Chemistry Club 1965 - 1966

- Visits research facilities at American Paint, Minnesota Mining, Elk River Atomic Power Plant and attends seminars.
- Provides social events such as the annual picnic, toboggan parties and co-rec sports competitions.

Patricia Elmquist hired 1967 - 68

Vince Magnuson hired 1968 - 69

Row 1: A. Duval, F. Moore, **V. Magnuson (inorganic)**, C. Nichol.  Row 2: J. Glick, D. Harriss, T. Bydalek, R. Carlson, E. Cowles, R. Caple, L. Thompson
Wilmar Salo hired 1969 - 70

Row 1: A.M. Duval, D. Harriss, R. Carlson, V. Magnuson, T. Bydalek, Row 2: R. Caple, E. Cowles, L. Thompson, W. Salo (biochemistry), F.B. Moore, J. Glick

First joint appointments with School of Medicine established.
Prof.s Emeriti in 2012
J.C. Nichol, D.K. Harriss, V. R. Magnuson, L. C. Thompson, R. M. Carlson, R. Caple (R. Carlson)
Eight prof.s emeriti developed strong international collaborations with scientists from Brazil, India, Russia, Viet Nam, Cuba, China, France, Poland (UMD Photo)

Legacy: International Collaborations (Panel at 3:45 pm)
Building on the Foundation: Expanding the Curriculum, Research Expertise, and Leadership
2016 Chemistry and Biochemistry Faculty

(V. Coit)
<table>
<thead>
<tr>
<th>Year</th>
<th>Faculty Hire</th>
<th>Curriculum Expansion</th>
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</thead>
<tbody>
<tr>
<td>1976</td>
<td>Bilin Tsai</td>
<td>Physical</td>
</tr>
<tr>
<td>1986</td>
<td>Paul Siders</td>
<td>Physical</td>
</tr>
<tr>
<td>1993</td>
<td>Viktor Zhdankin</td>
<td>Organic</td>
</tr>
<tr>
<td>1993</td>
<td>Dept of Chemistry becomes the Dept of Chemistry and Biochemistry</td>
<td>B.S. – BMB approved</td>
</tr>
<tr>
<td>1996</td>
<td>Paul Kiprof</td>
<td>Inorganic, Organometallic</td>
</tr>
<tr>
<td>1998</td>
<td>John Evans</td>
<td>Analytical</td>
</tr>
<tr>
<td>1998</td>
<td></td>
<td>Joint appointments with the Large Lakes Observatory (LLO) began. Water Resources Science graduate appointments.</td>
</tr>
</tbody>
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### 2004 - 2006

<table>
<thead>
<tr>
<th>Year</th>
<th>Faculty Hire</th>
<th>Curriculum/ Building Expansion</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td><strong>Swenson Science Building Dedication</strong></td>
<td>General, Organic, and Biochemistry Instructional Labs and Biochemistry Research Labs</td>
</tr>
<tr>
<td>2005</td>
<td>Steve Berry</td>
<td>Bioinorganic, Biochemistry</td>
</tr>
<tr>
<td>2005</td>
<td>Joe Johnson</td>
<td>Biochemistry</td>
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<tr>
<td>2005</td>
<td>Elizabeth Minor</td>
<td>Analytical, LLO</td>
</tr>
<tr>
<td>2005</td>
<td>Sangetta Mereddy</td>
<td>Organic</td>
</tr>
<tr>
<td>2006</td>
<td></td>
<td>Graduate appointments in Integrated Biosciences begin.</td>
</tr>
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Swenson Science Building (UMD Photo)
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<th>Faculty Hire</th>
<th>Curriculum/Building Expansion</th>
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<tr>
<td>2007</td>
<td>Peter Grundt</td>
<td>Organic</td>
</tr>
<tr>
<td>2007</td>
<td>Anne Hinderliter</td>
<td>Biophysical</td>
</tr>
<tr>
<td>2009</td>
<td>Ahmed Heikal</td>
<td>Biophysical</td>
</tr>
<tr>
<td>2010</td>
<td>Brian Gute</td>
<td>Computational Chemistry Active Learning Initiatives</td>
</tr>
<tr>
<td>2010</td>
<td>Kate Kallevig</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>2011</td>
<td>Romesh Lakhan</td>
<td>Chemical Toxicology Science Outreach</td>
</tr>
<tr>
<td>2012</td>
<td>Planning began for the Chemistry and Advanced Materials Science Building (CAMS)</td>
<td>Chemistry and Materials Sciences Request for Bonding Funds is before the Minnesota Legislature (2016)</td>
</tr>
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CAMS
(BWBR Photo)
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<th>Year</th>
<th>Faculty Hire</th>
<th>Curriculum Expansion</th>
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<tr>
<td>2014</td>
<td>Alessandro Cembran</td>
<td>Computational</td>
</tr>
<tr>
<td>2014</td>
<td>Kathryn Schreiner</td>
<td>Analytical, LLO</td>
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<tr>
<td>2014</td>
<td>Eve Metto</td>
<td>Analytical</td>
</tr>
<tr>
<td>2015</td>
<td>Jacob Gauer</td>
<td>Biophysical</td>
</tr>
<tr>
<td>2016</td>
<td>Melissa Maurer-Jones</td>
<td>Analytical</td>
</tr>
<tr>
<td>2016</td>
<td>Erin Sheets</td>
<td>Biophysical</td>
</tr>
<tr>
<td>2016</td>
<td></td>
<td>B.S.-Biochemistry approved</td>
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<tr>
<td></td>
<td></td>
<td>SCSE Advanced Materials Center established</td>
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<tr>
<td>2017</td>
<td>Future Materials Chemist</td>
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Thank you