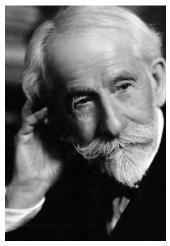
APPENDICES

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Appendix A. UNIVERSITY OF MINNESOTA PRESIDENTS



William Watts Folwell 1869-1884



Cyrus Northrup 1884-1911



George E. Vincent 1911-1917



Marion L. Burton 1917-1920



Lotus D. Coffman 1920-1938



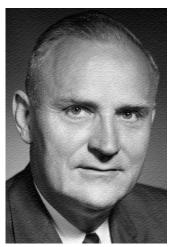
Guy Stanton Ford 1938-1941



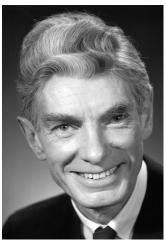
Walter C. Coffey 1941-1945



James Lewis Morrill 1945-1960



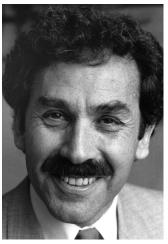
O. Meredith Wilson 1960-1967



Malcolm Moos 1967-1974



C. Peter McGrath 1974-1984



Kenneth H. Keller 1985-1988



Nils Hasselmo 1989-1997



Mark G. Yudof 1997-2002

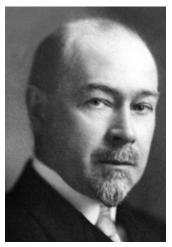


Robert H. Bruininks 2003-2011



Eric W. Kaler 2011-present

Appendix B. COLLEGE OF PHARMACY DEANS



Frederick J. Wulling 1892-1936



Charles H. Rogers 1936-1956



George P. Hager 1957-1966



Lawrence C. Weaver 1966-1984



Gilbert S. Banker 1985-1992



Marilyn K. Speedie 1996-present

Appendix C. MEDICINAL CHEMISTRY DEPARTMENT HEADS



Glenn L. Jenkins 1936-1941



Ole Gisvold 1941-1969



Taito Soine 1969-1974



Mahmoud M. Abdel-Monem 1983-1984



Yusuf J. Abul-Hajj 1984-1992; 1996-2005



Rodney L. Johnson Interim, 1994-1996; 2005-2006



Gunda I. Georg 2007-present

Appendix D. OUTSTANDING ACHIEVEMENT AWARDS

The Outstanding Achievement Award is the University of Minnesota's highest award to an alumnus. It is conferred upon former students of the University who have attained distinction in their chosen fields or professions or in public service, and who have demonstrated outstanding achievement and leadership on a community, state, national, or international level.



George E. Crossen

B.S. 1933, M.S. 1939, Ph.D. 1940, University of Minnesota.
Assistant Professor, University of Minnesota, 1940-43
Dean of Pharmacy, Drake University, 1943-45
Dean of Pharmacy, Oregon State University, 1945-58

Crossen was awarded the OAA in 1951 in recognition as an eminent author and administrator in pharmaceutical education. He was deemed to be worthy of special commendation for outstanding achievement.



Coy Webster Waller

B.S. 1937, University of North Carolina
M.S. 1939, University of Buffalo
Ph.D. 1942, University of Minnesota.
Instructor, State College of Washington, 1942-44
Head, Natural Products Chemistry, American
Cyanamid, 1944-57
Director of Chemical Research, Mead Johnson and
Company, 1957-66.

Waller was awarded the OAA in 1959 for his outstanding achievements in natural products research and was recognized for his success in the proof of structure and synthesis of folic acid, aureomycin, puromycin, and netropsin.



Charles Herbert Rogers

B.S. 1913, M.S. 1915, University of Michigan
Sc.D. 1918, University of Minnesota.
Instructor, 1913-14, University of Minnesota
Associate Professor & Head of Department of Pharmacy, University of West Virginia, 1914-17
Professor and Head of Pharmaceutical Chemistry, 1917-36; Dean of Pharmacy, 1936-56; University of Minnesota

Rogers was awarded the OAA in 1959 for his devotion to pharmaceutical education and the art and science of pharmacy. In his role as teacher, author, administrator, and researcher, he made many notable and lasting contributions to the instruction of students at both the graduate and undergraduate levels, to the practice of pharmacy as a vocation indispensible for the health of the public and the art of science of the apothecary in an era of "wonder drugs" and for his outstanding contributions as the second dean of the College of Pharmacy at the University of Minnesota.



James H. Boothe

B.S. 1939, Washington State College
Ph.D. 1943, University of Minnesota
Senior Research Scientist, Department of Medicinal
Chemistry at Lederle Laboratories Division, American
Cyanamid Company, 1943.

Boothe was awarded the OAA in 1962 for his outstanding work in medicinal chemistry and the chemistry of natural products. His initial contributions were on the synthesis of folic acid and its degradation of products as well as the first total synthesis of pteropterin. He is renowned for his work on the structural elucidation of aueromycin, the structure activity relationship between auromycin and tetracycline as well as the first total synthesis of chlorotetracycline analogs.



Chauncey I. Cooper

B.S. 1934, M.S. 1935, Ph.D. 1938, University of Minnesota Instructor, 1935-38; Associate Professor and Acting Dean, 1938-41; Associate Professor and Dean, 1941-51; Professor and Dean, 1951-72; Howard University

Cooper was awarded the OAA in 1964 in recognition of his energetic pursuit of higher educational standards for African Americans and greater opportunities for African Americans in pharmaceutical education and for his significant activities that led to the founding of the National Pharmaceutical Association.



Olav Johan Braenden

B.S. 1942, University of Oslo, Norway Ph.D. 1950, University of Minnesota, Social Affairs Officer, United Nations, New York, 1951-55 Chief, United Nations Narcotics Laboratory, Geneva, 1955-68

Chief, Scientific and Technical Section, Division of Narcotic Drugs, United Nations, Geneva, 1968-76

Braenden was awarded the OAA in 1974 for his outstanding contributions to the control of drug abuse internationally and for his training of numerous scientists from all over the world in methods pertinent to drug abuse.



Michael J. Martell

B.S. 1954, Ph.D. 1958, University of Minnesota Research Chemist, Lederle Laboratories, 1960-69 Manager for Product Development, American Cyanamid, 1969-75 Director, Medical Products and Process Chemistry, American Cyanamid, 1975-85

Martell was awarded the OAA in 1976 for his outstanding contributions to the tetracycline antibiotic, minocycline, which proved to be useful for the treatment of a broad spectrum of diseases.



Aubin Heyndrixcks

B.S. 1948, University of Ghent
M.S. 1952, University of Minnesota
Ph.D. 1953, University of Ghent
Professor and Director, 1958-70; Dean of
Pharmaceutical Sciences, 1970-85; University of
Ghent
Project Director, United Nations Industrial
Development Organization.

Heyndrixcks was awarded the OAA in 1980 in recognition of being a gifted scholar who improved the teaching and research of the department and made its laboratory one of the best in the country. He is a worldwide advisor on toxicology, drug abuse, and poison control centers and is an internationally recognized expert in toxicology and forensic science.



Jack R. Cole

B.S. 1953, University of Arizona
Ph.D. 1957, University of Minnesota
Assistant Professor, 1957-58; Associate Professor, 1958-62; Professor, 1962-87; Head, Department of Pharmaceutical Sciences, 1975-79; Dean, 1977-87; College of Pharmacy, University of Arizona

Cole was awarded the OAA in 1983 in recognition of his superb administrative skills of attracting quality faculty and improving curriculum and obtaining a new building for pharmacy at the University of Arizona. He is recognized as a expert in the field of medicinal chemistry involved in the isolation and structural elucidations of pharmacologically useful agents from plants.



Allen I. White

B.S. 1937, M.S. 1938, Ph.D. 1940, University of Minnesota Assistant Professor, 1943-45; Associate Professor, 1945-48; Professor, 1948-79; Dean of Pharmacy, 1960-79; Washington State University

White was awarded the OAA in 1985 for his contribution and innovative leadership in the pharmacy practice and education and for implementing a clinical pharmacy program that became a model for other schools. He was also recognized for his leadership as Dean of Pharmacy at WSU and as president of the American Association of Colleges of Pharmacy.



Raymond Ernest Counsell

B.S.P. 1953, University of British Columbia Ph.D. 1957, University of Minnesota Senior Research Chemist, G. D. Searle and Company, 1957-64 Associate Professor, 1964-69; Professor, 1969-72;

Professor of Pharmacology and Medicinal Chemistry, 1976-99; University of Michigan

Counsell was awarded the OAA in 1989 for his outstanding contributions in medicinal chemistry, especially in the area of tumor-imaging agents and inhibitors of steroidogenesis. One of his compounds is licensed to Cellectar and is in early clinical trials for cancer therapy. He is a fellow of AAAS and has received several awards including the Horner Gold Medal in Pharmacy, American Cancer Society Research Associate Award, the Eleanor Roosevelt International Cancer Fellowship, the Fogarty Senior International Fellowship, and the Genia Czerniak Prize in Nuclear Medicine and Radiopharmacology.



Kuo-Hsiung Lee

B.S. 1961, Medical College of Taiwan
M.S. 1965, Kyoto University, Japan
Ph.D. 1968, University of Minnesota
Assistant Professor, 1970-74; Associate Professor,
1974-77: Professor, 1977-present; Chair of Medicinal
Chemistry and Natural Products Division, 1998-2008;
Director of Natural Products Laboratory,
1983-present; Keenan Professor of Medicinal
Chemistry, 1992-present; University of North Carolina

Lee was awarded the OAA in 1999 for his outstanding contributions as an international leader in medicinal and natural products chemistry and was recognized for his discovery of more than 1,000 new compounds, including several to treat cancer and HIV. As of 2010, Lee has discovered more than 3,000 novel bioactive natural products and synthetic analogs.



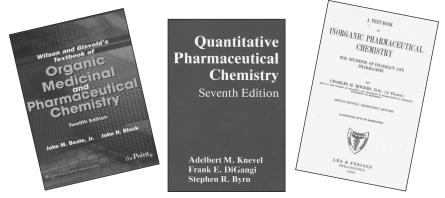
Mahmoud M. Abdel-Monem

B.Sc. 1959, Cairo University Ph.D. 1966, University of Minnesota Assistant Professor 1970-71, University of Illinois Assistant Professor 1971-75, University of Minnesota Associate Professor 1975-80; Professor 1980-87; Head of Medicinal Chemistry 1983-84; University of Minnesota Dean of Pharmacy, 1987-98; Washington State University

Abdel-Monem was awarded the OAA in 1999 for his overall accomplishments in teaching, research, and service. He performed admirably as an administrator at Minnesota while serving as Department Head, Interim Dean, and Associate Dean. His administrative experience helped him tremendously when he became Dean of Pharmacy at WSU.

Appendix E.

BOOKS AUTHORED BY MEDICINAL CHEMISTRY FACULTY



Frederick J. Wulling

The Evolution of Botany (Evolution Series) 1891

Frederick J. Wulling

Inorganic and Pharmaceutical Chemistry Wiley & Sons, 1894

Frederick J. Wulling

Pharmacy Forward Sumac Press, Lacrosse, WI, 1948

Charles H. Rogers

Textbook of Inorganic Pharmaceutical Chemistry, 1st-7th Editions, Lea & Febiger, 1932-1961

George E. Crossen and Charles H. Rogers

Laboratory Manual of Inorganic Pharmaceutical Chemistry Burgess Publishing Co., 1946

Charles H. Rogers and Taito O. Soine

Laboratory Manual of Inorganic Pharmaceutical Chemistry Burgess Publishing Co., 1948

Ole Gisvold and Charles H. Rogers

The Chemistry of Plant Constituents Burgess Publishing Co., 1938

Charles O. Wilson and Ole Gisvold

Organic Chemistry in Pharmacy Lippincott, 1949

Charles O. Wilson and Ole Gisvold

Textbook of Organic Medicinal and Pharmaceutical Chemistry, 1st Edition Lippincott, 1949 Currently in its 12th Edition

Taito O. Soine and Charles O. Wilson

Roger's Inorganic Pharmaceutical Chemistry, 8th Edition Lea & Febiger, 1974

John H. Block, E. Roche, Taito O. Soine and Charles O. Wilson Inorganic Medicinal and Pharmaceutical Chemistry Lea & Febiger, 1974

Albert K. Knevel, Frank E. DiGangi and Stephen R. Byrn

Quantitative Pharmaceutical Chemistry, 7th Edition McGraw Hill, 1977

Mahmoud M. Abdel-Monem and James G. Henkel

Essentials of Drug Product Quality: Concepts and Methodology Mosby, 1978

W. Thomas Shier and D. Mebs

Handbook of Toxinology Marcel Dekker, 1990

W. Thomas Shier

Mammalian Cell Culture on \$5 a Day, A Laboratory Manual of Low Cost Material University of The Phillipines, Los Ballos, 1991

Yusuf J. Abul-Hajj and Richard Broderick

From Digitalis to Ziagen, The University of Minnesota's Department of Medicinal Chemistry University of Minnesota, Minneapolis, 2012.

Appendix F. GRADUATES OF THE DEPARTMENT OF MEDICINAL CHEMISTRY

Master's and Doctorate Degrees in Pharmaceutical Chemistry

1929 Mayrand, Louis Philippe	MS	1941 Jack, Laurine Davison Lloyd, William Reese	PhD PhD
1932	140	Urist, Harold	PhD
Goldner, Karl John	MS	Waldon, Curtis Henry Dennard, Turner Harrison	PhD MS
1934		Janecek, William Leonard	MS
Betts, Loel Howard	MS		
Brecht, Edward Armnd	MS	1942	
		Hadley, Willard Jesse	PhD
1935		Voigt, Ralph Ferdinand	PhD
Cooper, Chauncey Ira	MS	Waller, Coy Webster	PhD
Fostvedt, Gerald Anderson MS	140	1042	
Souch, John Kennedy	MS	1943 Boothe, James Howard	PhD
1937		Buelow, Donald William	PhD
Brewster, Phyllis May	MS	Horn, Gertrude Mary	PhD
Crossen, George Edward	MS	Soine, Taito Olaf	PhD
Jack, Laurine Davison	MS	Benica, Wiliam Steinhart	MS
Voigt, Ralph Ferdinand	MS	Carlson, Edward Henry	MS
Waldon, Curtis Henry	MS	Klug, Silas Aloys	MS
		Small, Laverne Doreyn	MS
1938			
Goldner, Karl John	PhD	1945	
White, Allen Ingolf	MS	Small, Laverne Doreyn	PhD
1000		Asano, Akira	MS
1939 Description Educated Associated	PhD	1947	
Brecht, Edward Armond Buelow, Donald William	PhD MS	Almin, Rugnar	MS
Fredell, Walter George	MS	Bay, Gail	MS
Hansen, Harriet Eleanor	MS	Duy, Gui	1010
Keyes, Winifred Alice	MS	1948	
Soine, Taito Olaf	MS	Asano, Akira	PhD
		Benica, William Steinhart	PhD
1940		Bope, Frank Willis	PhD
Crossen, George Edward	PhD	DiGangi, Frank Edward	PhD
Fischer, Earl Britzius	PhD	King, Robert Edward	PhD
Netz, Charles Vail	PhD	Chang, Yu-Chung	MS
White, Allen Ingolf	PhD	Kuhlen, Lois Marie	MS
Hadley, Willard Jesse	MS		

1949 Doerge, Robert Fred Kleber, John William	PhD PhD	Schwartz, Samuel Meyer Fiedler, Klaus Reiner	PhD MS
Schermerhorn, John Watson	PhD	1957	
		Cole, Jack Robert	PhD
1950		Counsell, Raymond Ernest	PhD
Braeden, Olav Johan	PhD	Batra, Karam Vir	MS
Chow, Alfred Wen-Jen	PhD	Yun, Tuk Sik	MS
Hopponen, Raymond Ellwood	PhD		
Murty, Gollakota Gopala K	PhD	1958	-1
		Kelly, Clark Andrew	PhD
1951		Kier, Lemont Burwell	PhD
Abu-Shady, Hamed A	PhD	Martell, Michael Joseph	PhD
Buchdahl, Myron Robert	PhD	10(1	
Chiang, Li-Chin	PhD	1961	ם וח
Patel, Ramanbhai Kishorbhai Zagalayy, Leopard Paul	MS MS	Liebman, Arnold Alvin Patel, Ramanbhai Kishorbhai	PhD MS
Zagelow, Leonard Paul	1115	Rao, Padukone Krishna	MS
1952		Rao, Fautrone Ritsiilia	IVID
Hamor, Glenn Herbert	PhD	1962	
Miller, Robert Herman	PhD	Takebe, Yoshiko Higoshi	MS
Putney, Blake Fuqua	PhD		1110
Rost, William Joseph	PhD	1963	
		Issacson, Eugene Ivan	PhD
1953			
Appel, Robert Martin	PhD	1964	
Boblitt, Robert Leroy	PhD	Maulding, Hawkins Valliant Jr.	PhD
Gregg, David Henry	PhD	Prasad, Vadlamani Kali	PhD
Rhodes, Harold Jesse	PhD	Jawad, Fuad Hasan	MS
Heyndrick, AubinMarie Achille	MS		
Ramarao, Maddury VenkataMS		1965	
		Gupta, Prem Kumar	PhD
1954		Kriesel, Douglas Clare	PhD
Bay, Paul G	PhD	Stubbins, James Fiske	PhD
1955		1966	
Petersen, Robert Virgil	PhD	Abdel-Monem, Mahmoud	PhD
		Mikhall, Adel Ayad	PhD
1956		Zoglio, Michael Anthony	PhD
Ecanow, Bernard	PhD	G / · · · /	

Master's and Doctorate Degrees in Medicinal Chemistry

1968		1976	
Lee, Kuo-Hsing	PhD	Chen, Chi-Ming	PhD
Williams, David Allen	PhD	Duquette Peter	PhD
		Lyon Philip Al	PhD
1969		Weeks, Charles	PhD
El-Antably, Mohamed Samir M	PhD	Mikhail, Ezzat	MS
El Masry, Ahmed Hassan I	PhD		
Ishaq, Kjhalid Sulaiman	PhD	1978	
Koechel, Daniel Allen	PhD	Fong, Keilai La	PhD
Larson, Dennis Leroy	PhD		
Riley, Tomas Nolan	PhD	1979	
Shipchandler, Mohammed Tyerji	PhD	Chen Ching His	PhD
		Kam, Sheung Tsa	PhD
1970		Magnan, Sanne D	PhD
Lattin, Danny Lee	PhD	Pankaskie, Marv	PhD
		Chiang, Yulin	MS
1971			
Chen, Chung-HS	PhD	1980	
Gomaa, Zeinab S	PhD	Muldoon, William	PhD
Thaker, Anil K	PhD	Zera, Richard T	MS
Kulcsar, Sandor G	MS		
		1981	
1972		Alreja, Bipin D	PhD
Genenah, Almour	PhD	Mangold, Bonnie	PhD
Gillet, Andree	MS	Mangold, James	PhD
Thompson, Richard	MS		
		1982	
1973		Essawi, Mohamed Hafez	PhD
Almquist, Ronald	PhD	Ramakrishnan K	PhD
Berg, Eric Pete	PhD	Meister, Suzanne Mary	MS
Genenah, Ekram	PhD		
Shirota, Frances	PhD	1983	
Stinson, Samuel	PhD	Brungardt, Catherine	PhD
Egli, Keith	MS	Elfarra, Adnan Abdelrah	PhD
		Miller, Robert Barker	PhD
1974			
Erhardt, Paul W	PhD	1984	
Lovsted, Elsie	PhD	Elliott, Richard Louis	PhD
		Kwon, Chul Hoon	PhD
1975	D1 -	Schoenecker, Joseph W	PhD
Ahmed, El-Ahmed	PhD	Sugg, Elizabeth Ellen	PhD
Naghaway, Janet	PhD	Rein, Michael David	MS
Chen, Chinghsiu	MS	Quirante, Josefina	MS

1985		1995	
John, Varghese	PhD	Baures, Paul William	PhD
Ridgewell, Richard Edwa	PhD	Chang, Anchih	PhD
Vennerstrom, Jonathan L	PhD	Gao, Peng	PhD
Jantan, Ibrahim Bin	MS	, ₀	
		1996	
1986		Olmsted, Sandra L	PhD
Crooks, Stephen Lawrence	PhD	Metzger, Thomas G	PhD
Roberts, Jeanette C	PhD	Simon, Amanda Marsh	PhD
Webster, Kathy Dudley	PhD	Nielsen ,Joy M	MS
Yu, Kuolong	PhD		
		1997	
1987		Hosagrahara, Vinayak	PhD
Marchand,Daniel Hohmann	PhD	Khalil, Ehab M	PhD
Mishra, Nrusingha Chara	PhD	Kshirsagar, Tushar Ashok	PhD
Tabone, John C	PhD	Liao, Pei Ling	PhD
		McIntee, Edward J	PhD
1988		Tessmer, Michael R	PhD
Elghandour, Asmaa Mahmoud	PhD		
Lee, Fangchen	PhD	1998	
		Lind, Kenneth Egnard	PhD
1990		Nelson, Michael Harvey	PhD
Boteju, Lakmal Wasantha	PhD		
Lee, Melinda June Causton	PhD	1999	
Stark, Peter Anthony	PhD	Dolbeare, Kristine Anderson	PhD
Peterson, Eileen Marie	PhD	Evans, Margaret C	PhD
		Iyer, Vidhya Venkatraman	PhD
1991	-1-	Hauer, Stacy Kathryn	MS
Barbas, Dimitrios P	PhD	Ouyang, Jun	MS
Kroona, Heather Beila	PhD	2004	
Sreenivasan, Uma	PhD	2001	
Subasinghe, Nalin Leela	PhD	Bhushan, Rashmi Gupta	PhD
Cartier, Michelle Marie	MS	Quirk Dorr, Danae Rose	PhD
1002		Hause, Benjamin M	MS
1992		2002	
Boyapati, Vijaya L	PhD	2002 Dashbar Sariha V	
Genin, Michael James	PhD	Prabhu, Sarika V	PhD
1993		2003	
Kawle, Sagar Pundlik	MS	Niratisai, Sathit	PhD
~		Seetharaman, Mahadevan PhD	
1994		Ziegel, Rebecca Lynn	MS
Iyer, Ramaswamy A	PhD		
Ha, Eunjin	MS		

2004		2008	
Guo, Zhijun	PhD	Balasubramanian, Ranganathan	PhD
Jorvig, Erik C	PhD	Doshi, Jignesh Mahesh	PhD
Kalyanaraman, Natarajan	MS	Loeber, Rachel Lea	PhD
		Kending,Cory Shawn	PhD
2005		Addo, Sadiya Noor	MS
Carlson, Jonathan C T	PhD	Johnson, Thomas Edwin	MS
Fisher, Abigail Louise	PhD	Norton, Jolanna Alikeh	MS
Li, Xingnan	PhD	Steele, Jaeson Charles	MS
Rao, Priyanka Arvind	MS		
Tang, Ye	PhD	2009	
Wang, Haiqing	PhD	Bhagwanth, Swapna	PhD
Wong, Hansen L	PhD	Goggin, Melissa Mary	PhD
		Liu, Li	PhD
2006		Liu, Xiaodan	PhD
Argikar, Upendra Arvind	PhD	White, Brian Richard	PhD
Chou, Tsui-Fen	PhD	Zhang, Siyi	PhD
Daniels, David John	PhD	Meng,Lei	MS
Kane, Brian Edmund	PhD	Pietsch,Kathryn E	MS
Lao, Yanbin	PhD		
Goodell, John Robert	PhD	2010	
Raghavan, Bhooma	PhD	Bardaweel, Sanaa Khaled	PhD
Steele, Terry William Joseph	PhD	Zhou, Jin	PhD
Vartak, Ashish	PhD	Zhou, Xin	PhD
Giraldes, John W	MS	Michaelson-Richie, Erin Denise	MS
		Aliwarga, Theresa	MS
2007			
Lu, Ding	PhD	2011	
More, Swati Sudhakar	PhD	Das, Sonia Goutam Kumar	PhD
		Ming, Xun	MS

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_____. Proceedings, 1942, 1947 and 1950.

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Wilson, Heather. Letter to Yusuf Abul-Hajj, 14 November 2008.

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