

Centennial Celebration
August 12-14, 2005

***One Hundred Years of
Chemical Engineering at the
University of Wisconsin***

R. Byron Bird

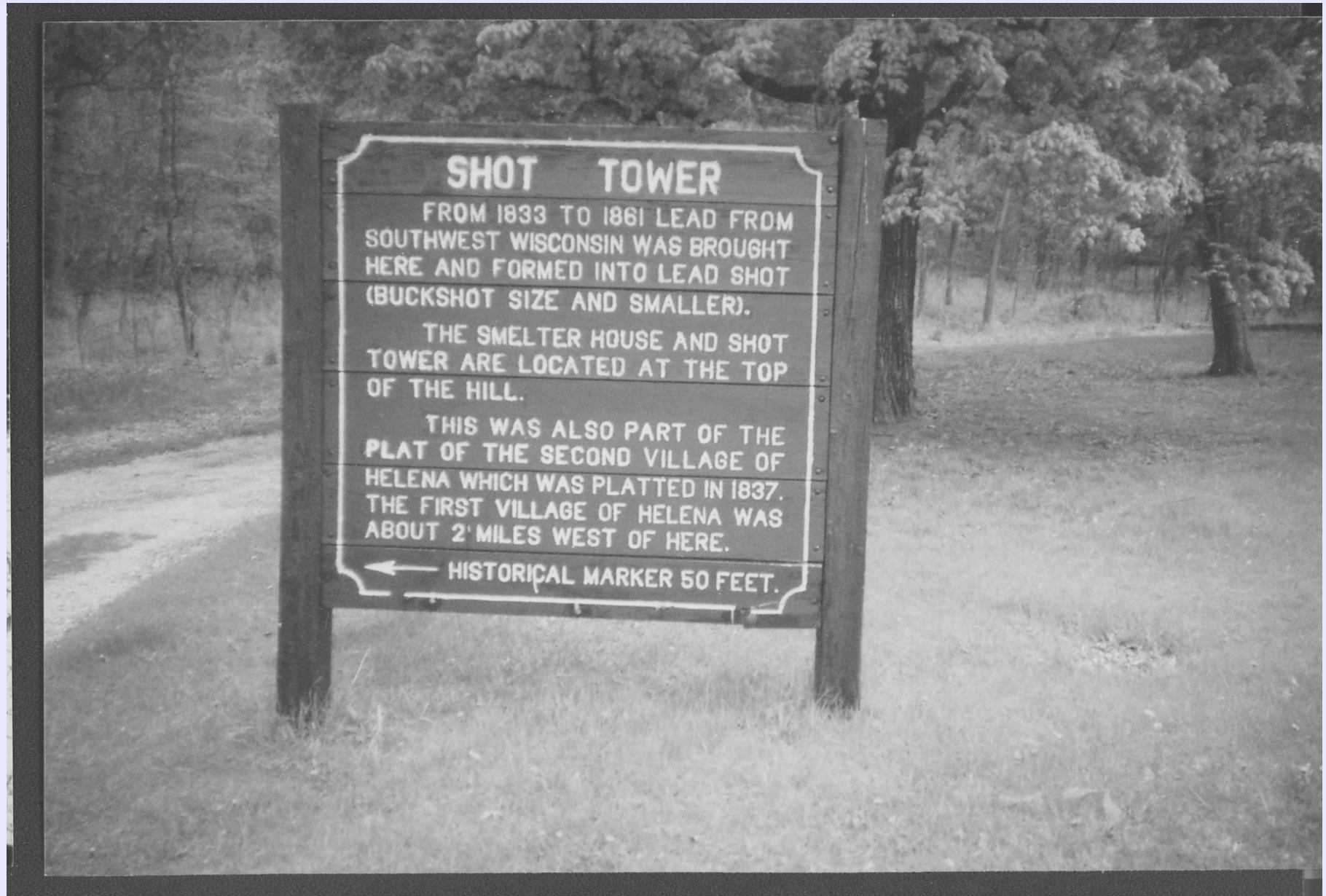
Professor Emeritus

University of Wisconsin - Madison
Dept. of Chemical & Biological Engineering

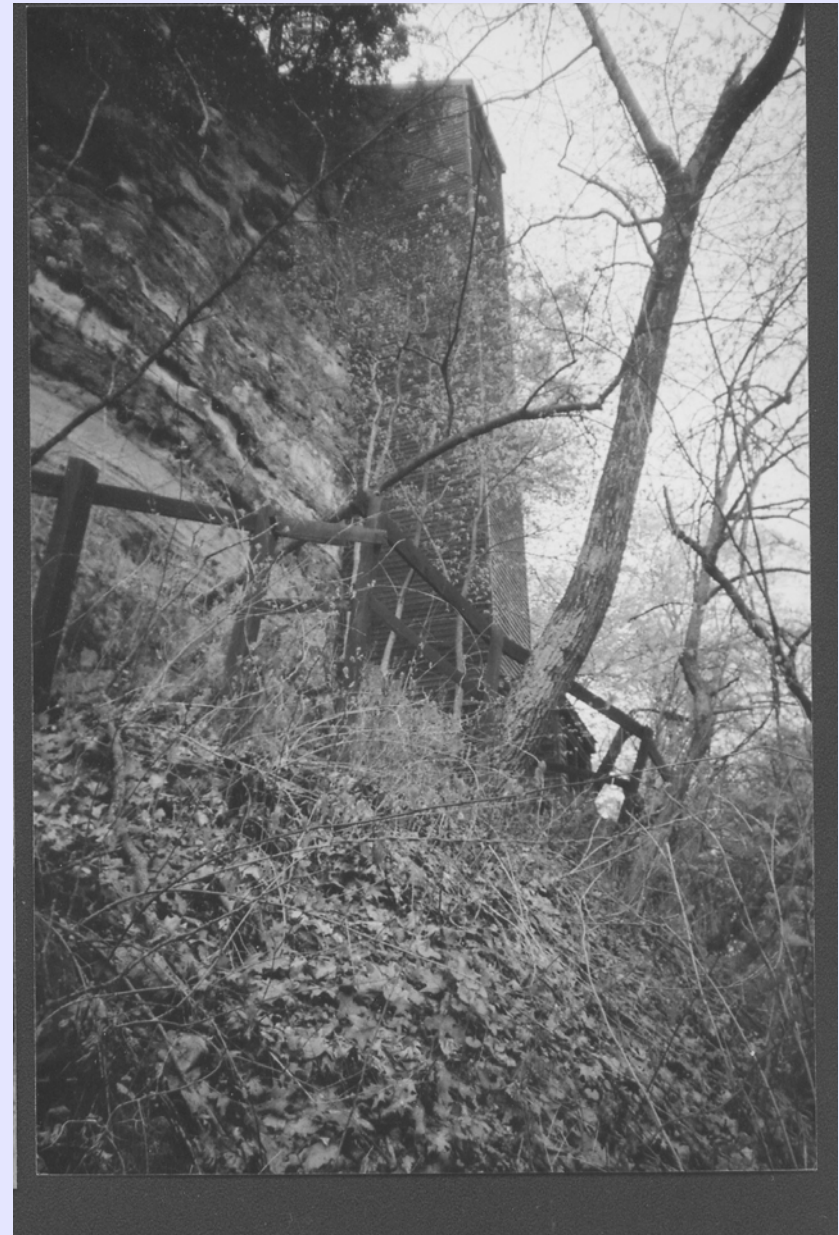
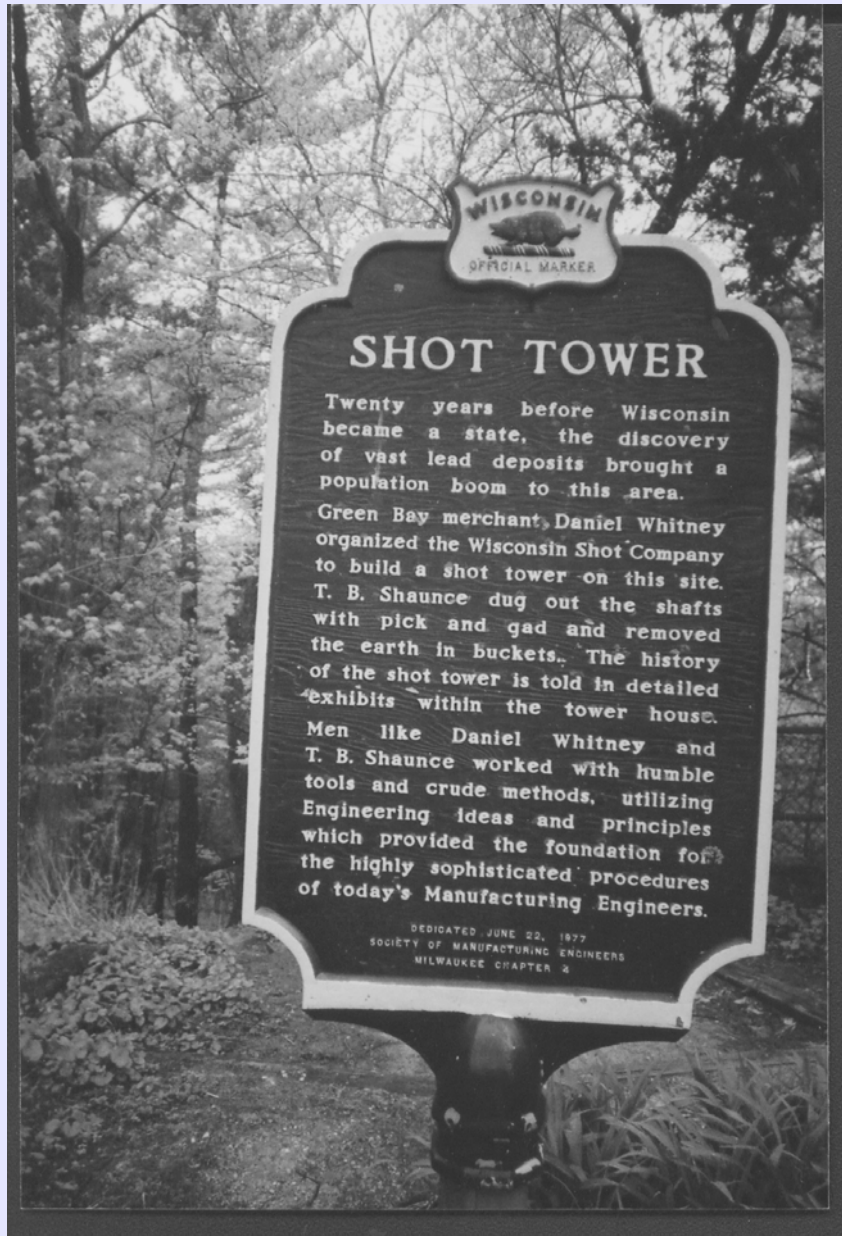
Olaf A. Hougen



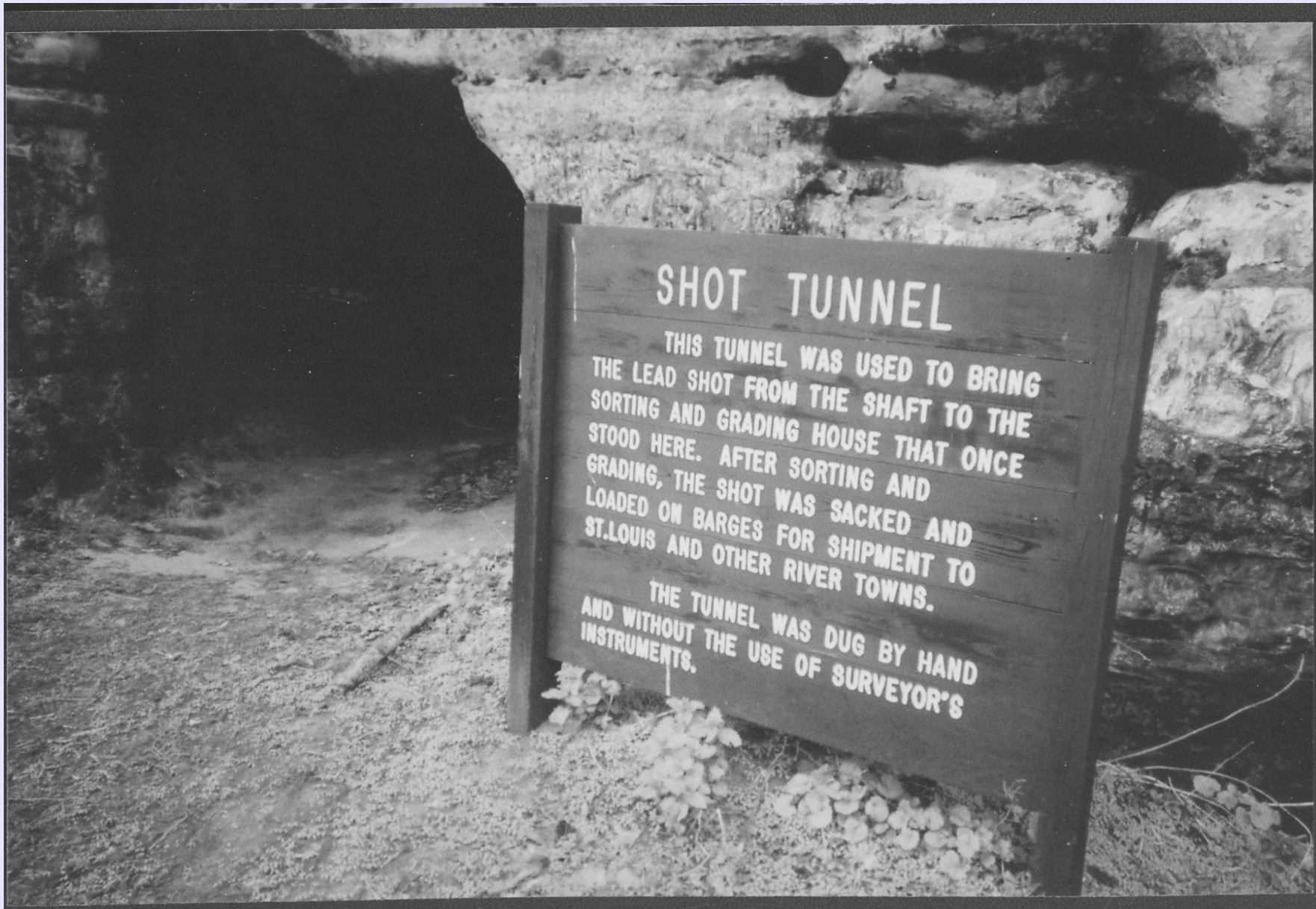
Tower Hill Park



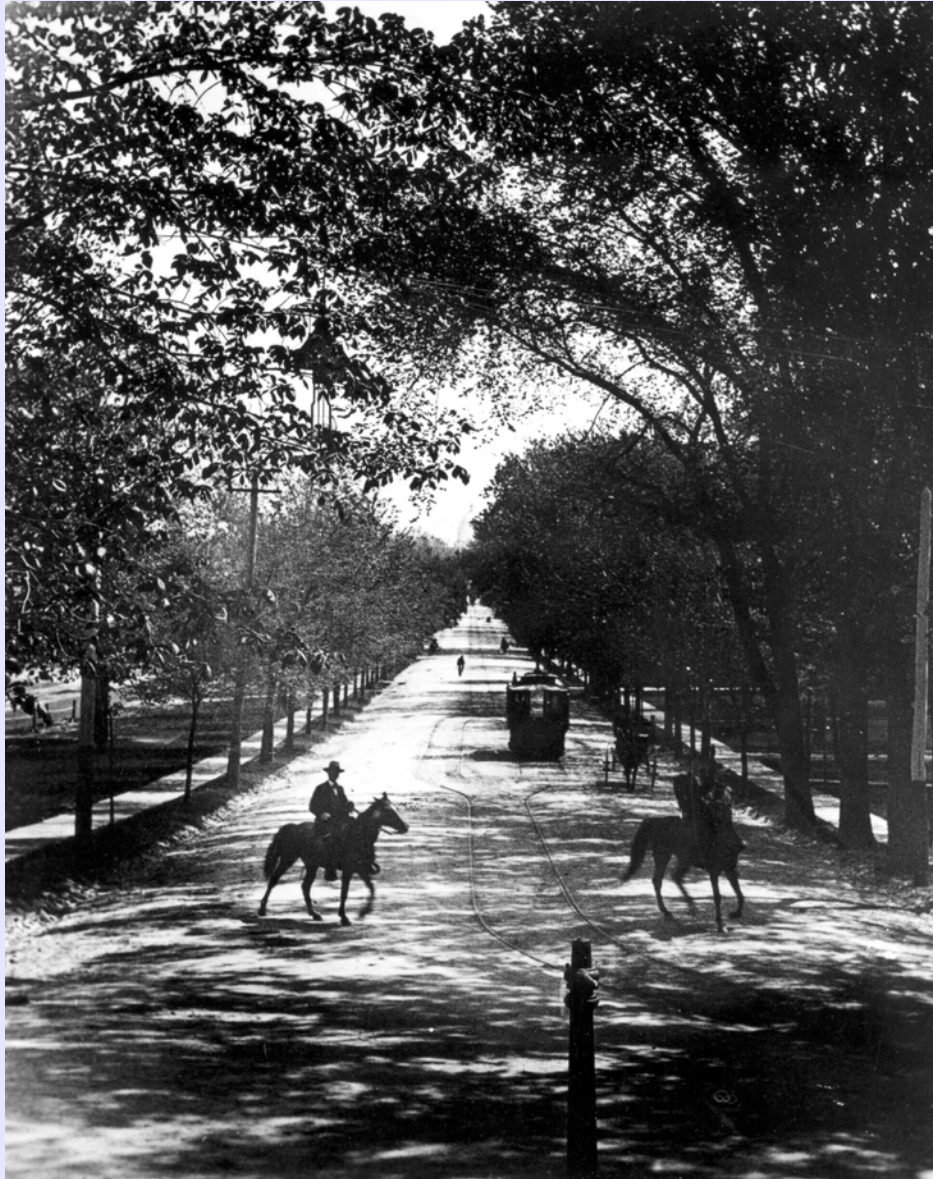
Tower Hill Park



Tower Hill Park



Late 90's: State Street looking towards the Capitol



1905

Population of Madison ~ 24,000
Number of Automobiles ~ 50
Number of Horses ~ 1000
Number of UW Students ~ 2,500

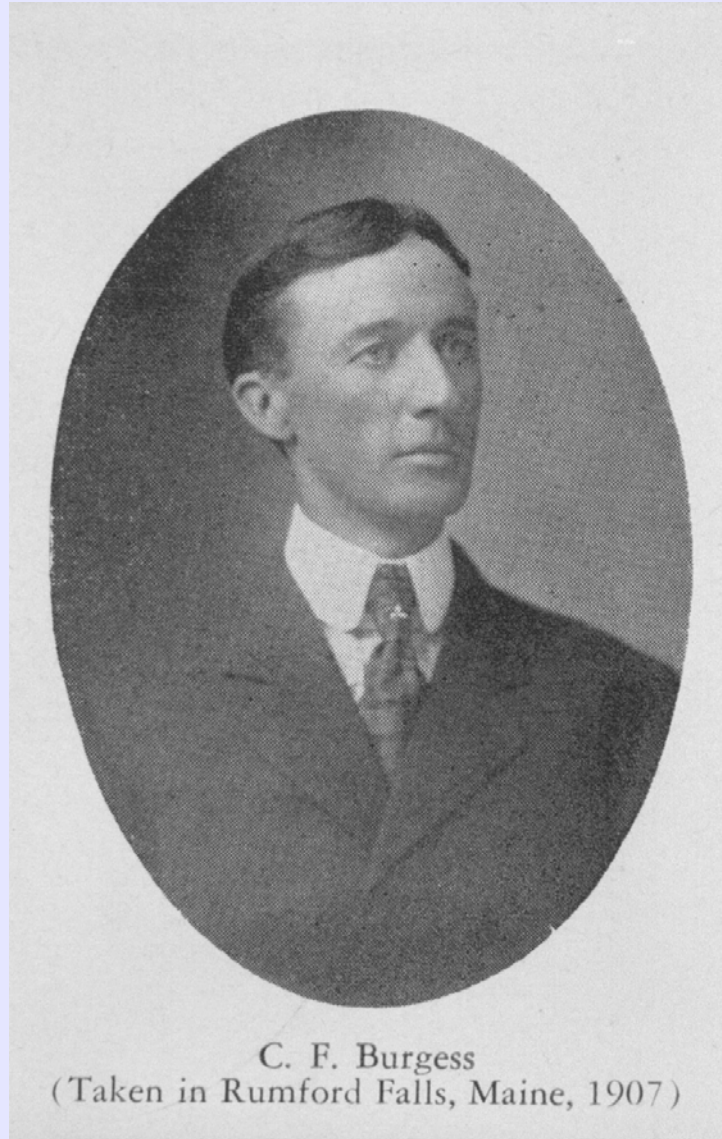
Engineering at Wisconsin:

- Civil Engineering (1870)
- Mining and Metallurgy (1871)
- Mechanical Engineering (1879)
- **College of Mechanics & Engineering formed 1889; first Dean appointed 1899!**
- Electrical Engineering (1891)
- Applied Electrochemistry (1899)
- **Chemical Engineering (1905)**

1907: University of Wisconsin Campus

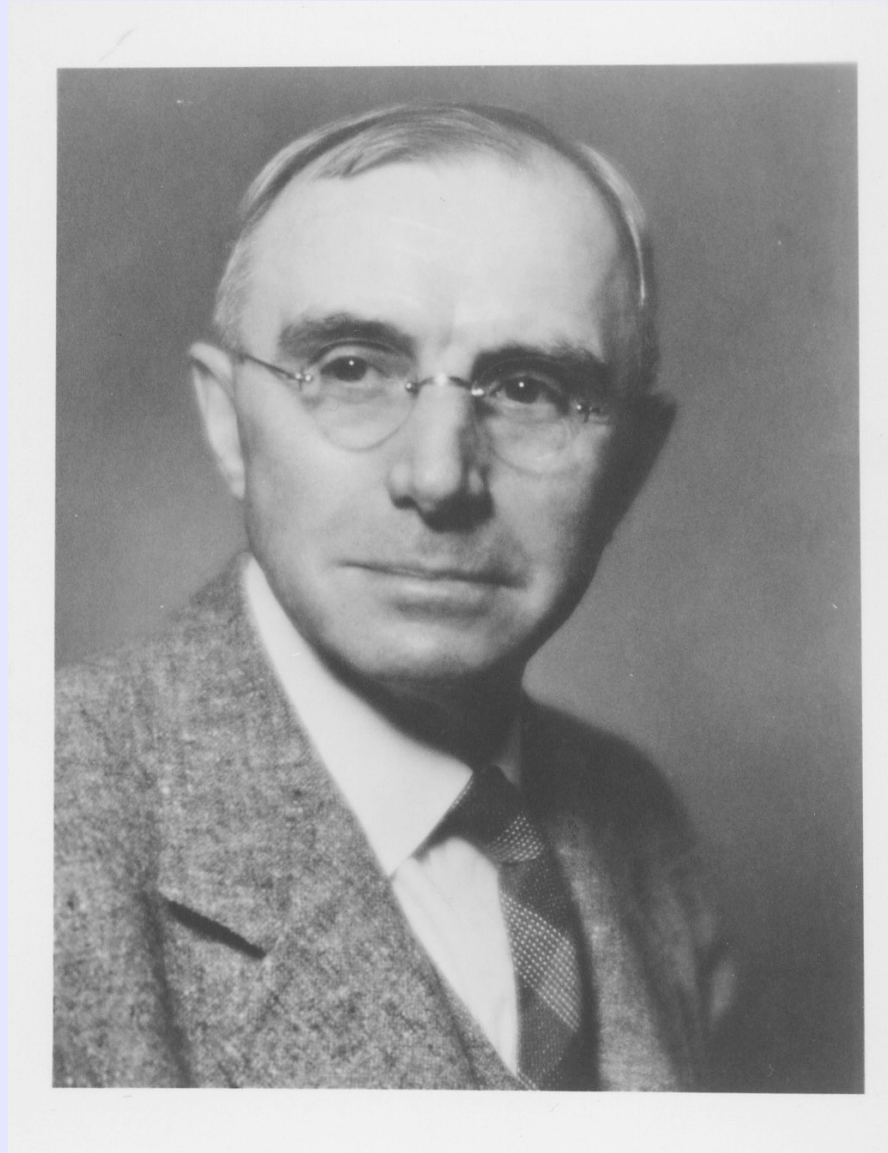


1905-13: Charles F. Burgess, our first Chairman



C. F. Burgess
(Taken in Rumford Falls, Maine, 1907)

1913-40: Otto L. Kowalke, our second Chairman



Otto L. Kowalke's 90th Birthday Party



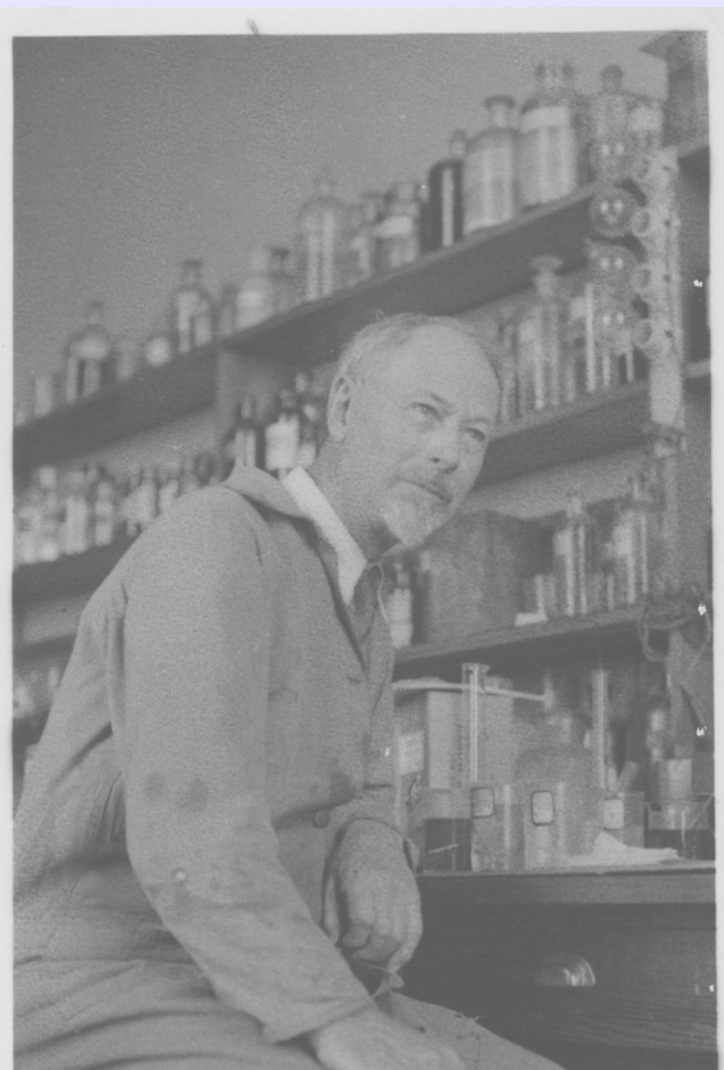
**1940-64 (alternating with Roland Ragatz):
Olaf A. Hougen, our third Chairman**



1940-64 (alternating with Olaf Hougen):
Roland A. Ragatz, our fourth Chairman



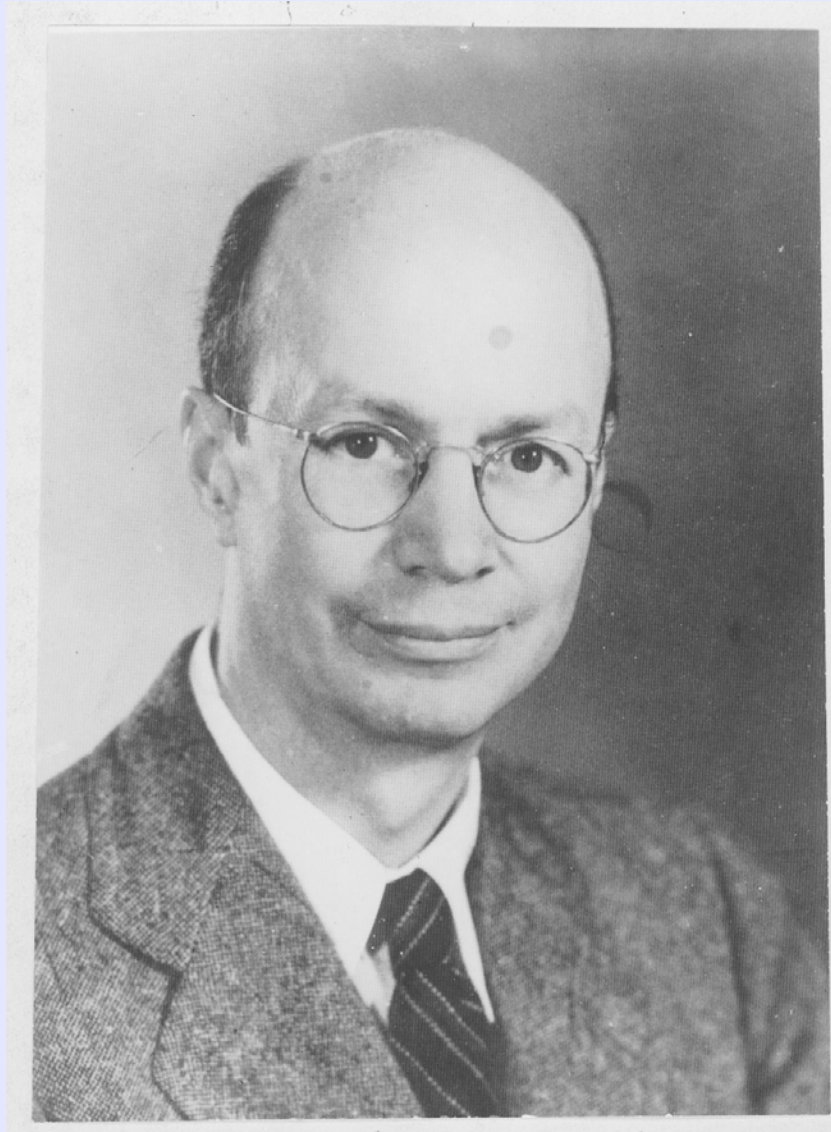
Some Early Alumni who became Academic Leaders:
Oliver P. Watts



Some Early Alumni who became Academic Leaders:
Charles A. Mann



Some Early Alumni who became Academic Leaders:
Allan P. Colburn



Some Early Alumni who became Academic Leaders:
Norman H. Ceaglske



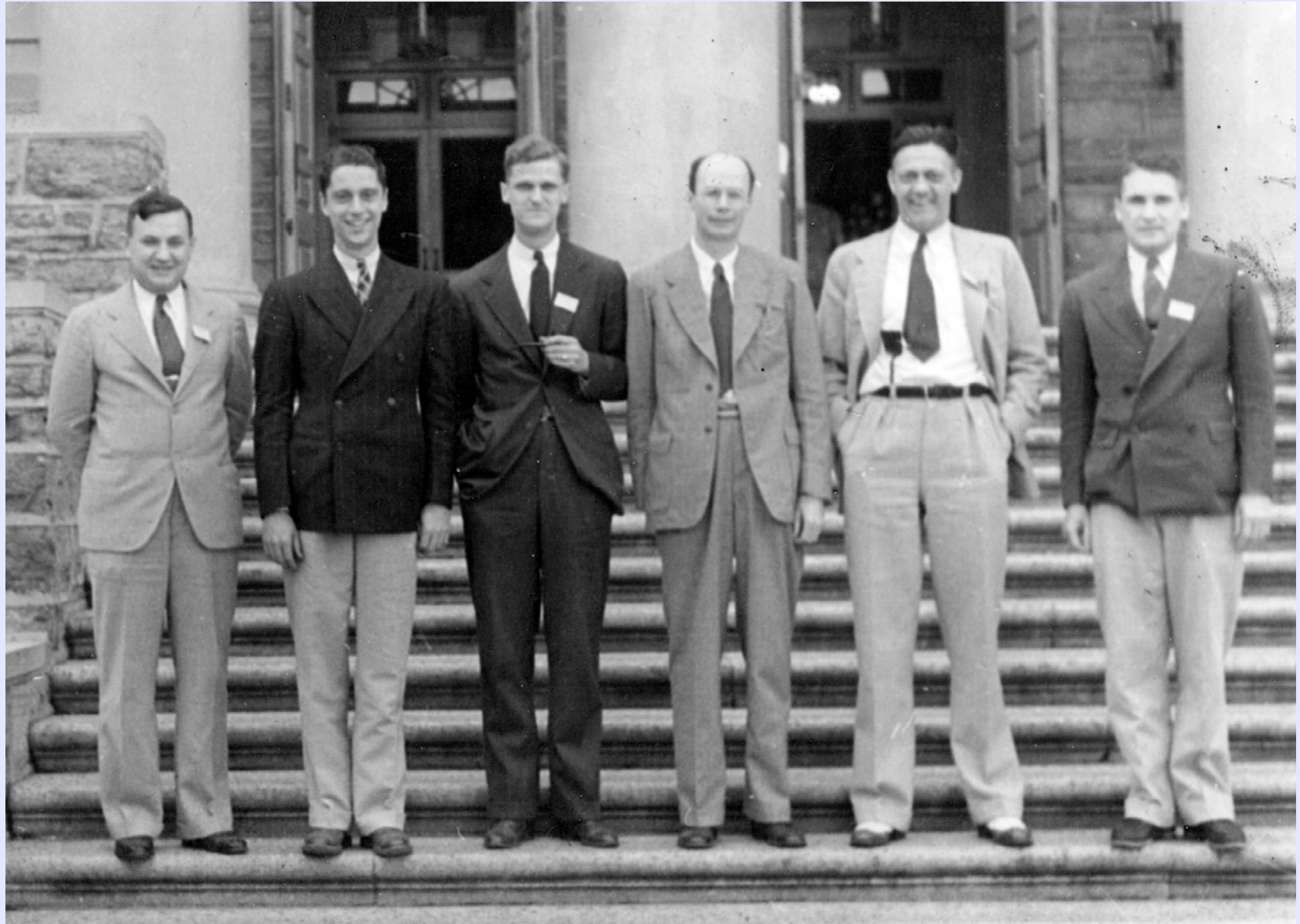
Some Early Alumni who became Academic Leaders:
Kenneth M. Watson



Some Early Alumni who became Academic Leaders:
W. Robert Marshall



A Puzzle: The Gang of Six



Chemical Engineering (1905-1952): 600 North Park St.



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Chemical Engineering (1905-1952): Quonset Hut Q-15



Chemical Engineering (1952-2005):
Move to Camp Randall - Unit 1 (1951) Elec. Eng and Eng Mech.



**Chemical Engineering (1952-2005):
Move to Camp Randall - Unit 2 (1952) Chemical Engineering**



**Chemical Engineering (1952-2005):
Move to Camp Randall - Unit 3 (1964) Chemical Engineering**



Chemical Engineering (1952-2005): Move to Camp Randall - Unit 4 (1993) Chemical Engineering



Old Chemical Engineering Building (1969): Making Room for Helen White Library



**Quonset Hut Q-15 (2004):
The end of a drafty old friend**



**Canoe Trip to the BWCA:
Manfred Morari, Paul Dotson, Joe Kubsh (1979)**



Canoe Trips to the Quetico Park:
Jim Rawlings, John De Aguiar, John Torkelson (1982)



**Canoe Trips to the Quetico Park:
Sanjay Sharma, Jim Silver, Tom Srnak (1988)**



**Canoe Trips to the Quetico Park:
Sanjay Sharma quenching his thirst (1988)**



**Canoe Trips to the Quetico Park:
Justus Rau, Jim Silver, Tom Srnak (1988)**



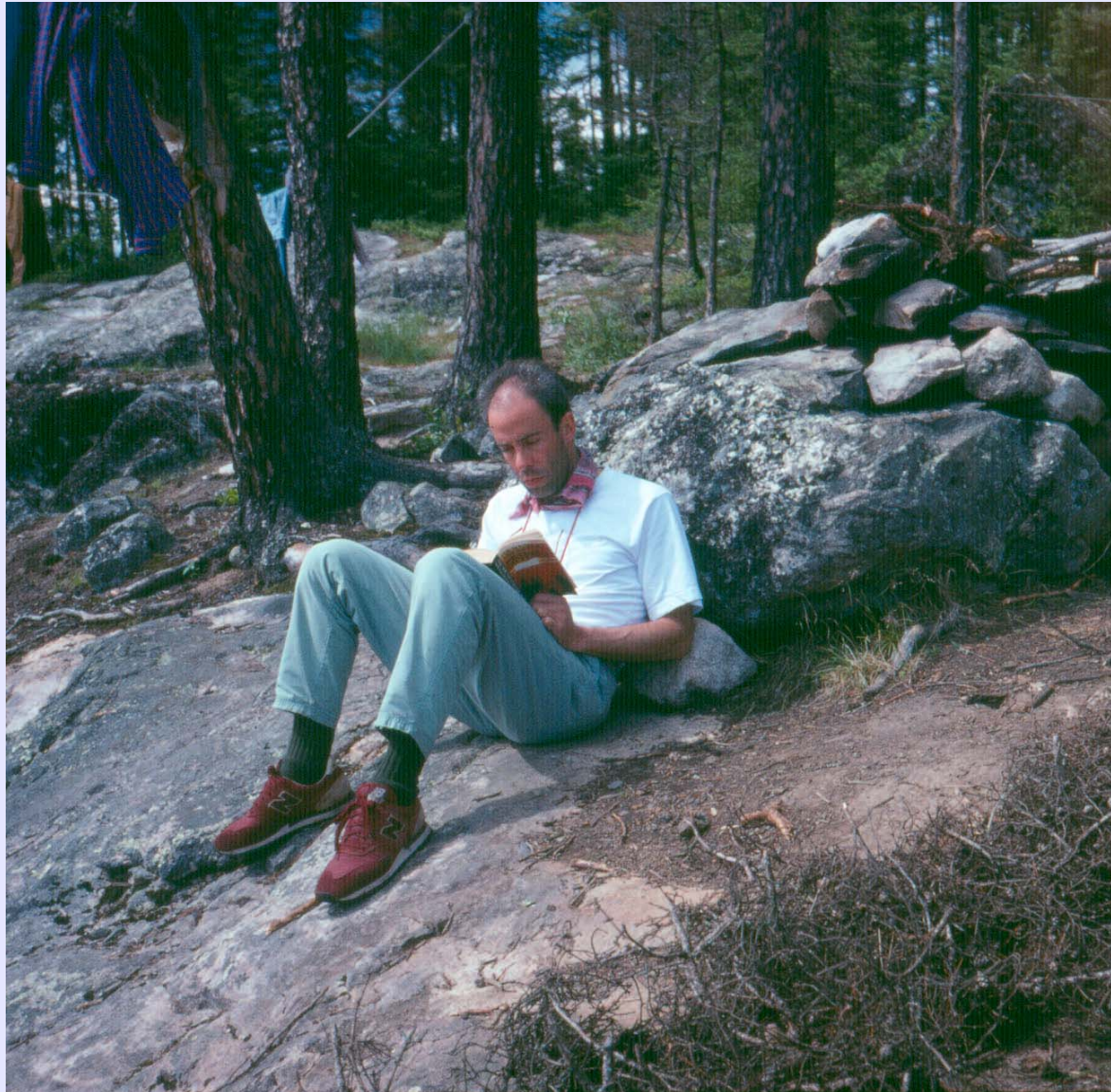
**Canoe Trips to the Quetico Park:
Dale Rudd, Lou Bruch, Doug Cameron (1989)**



**Canoe Trips to the Quetico Park:
Gary Huber, Jon Dorofi, George Rodrigues (1991)**



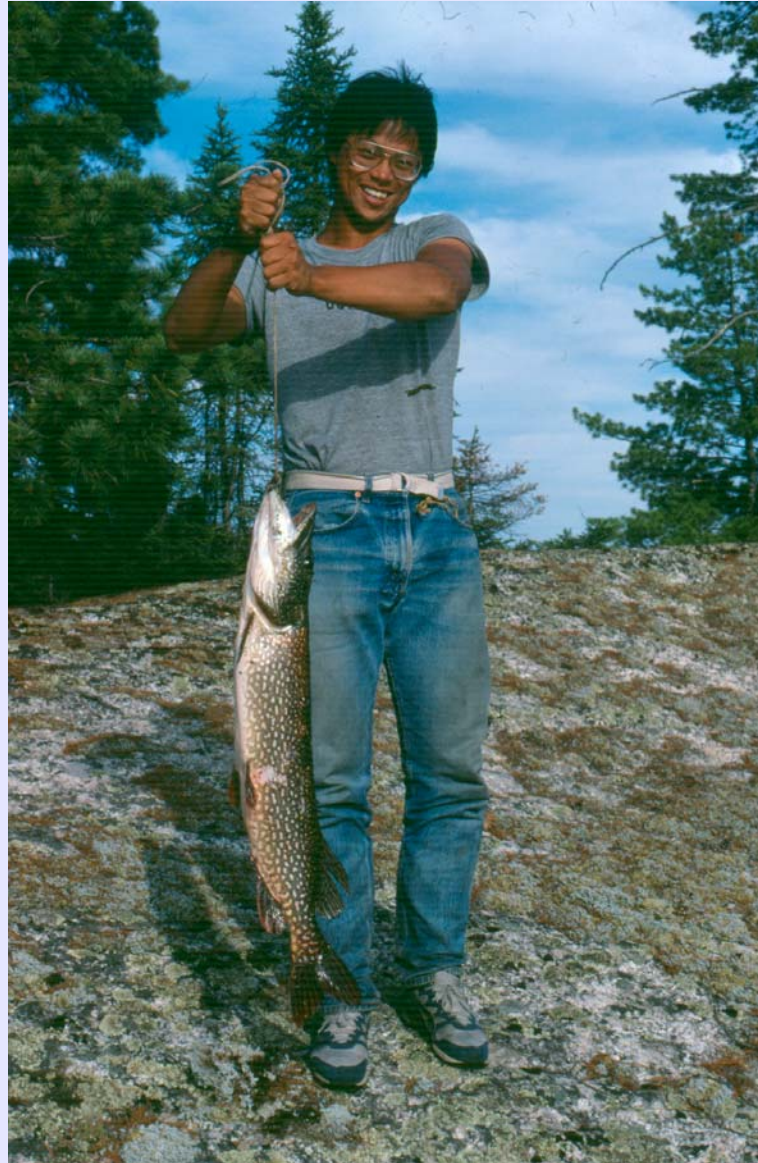
**Canoe Trips to the Quetico Park:
Juan de Pablo (1993)**



**Canoe Trips to the Quetico Park:
Jay Schieber, Todd Bell, Tom Culp (1995)**



**Canoe Trips to the Quetico Park:
Tony Liu having success (1987)**



**Canoe Trips to the Quetico Park:
Wedgewood family -1 (2001)**



Viewing the Kickapoo River:
Boudewijn van Nederveen, Len Rothfeld, Hsien-Wen Hsu



“100 Years of Chemical Engineering at UW”

by Olaf A. Hougen and R. Byron Bird

Part I. Prologue

1. Historical events in chemical processing
2. Instruction in engineering and chemistry
3. Applied electrochemistry (AEC)
4. From AEC to ChE

Part II. Ten decades of ChE

5. The first decade: 1905-1915
6. The second decade: 1915-1925
7. The third decade: 1925-1935
8. The fourth decade: 1935-1945
9. The fifth decade: 1945-1955
10. The sixth decade: 1955-1965
11. The seventh decade: 1965-1975
12. The eighth decade: 1975-1985
13. The ninth decade: 1985-1995
14. The tenth decade: 1995-2005

Part III. Some reminiscences

15. Reminiscences—1916-1917 (Hougen)
16. Reminiscences—1916-1920 (Ragatz)
17. Reminiscences —1947 and 1953 (Bird)
18. Reminiscences—1961 (Rudd)

Part IV. Special topics in education

19. The “summer lab”
20. General policies in engineering education
21. Theses
22. Professorial activities in foreign countries

Part V. Student participation

23. Student activities
24. Student unrest and violence
25. ChEGS

Part VI. Special topics

26. Relations with the AIChE
27. Department staff—the essential people
28. Endowments, bequests, and funds
29. Women in ChE
30. Research in the 21st century

Appendices:

- A. Higher administrative officials
- B. Chairmen of the ChE department
- C. Summary of faculty appointments
- D. Books published by the ChE faculty
- E. Hougen professors and scholars
- F. Distinguished Service Awards
- G. Graduates in professorial positions
- H. Postdoc. fellows in professorial positions
- I. PhD thesis titles
- J. City and campus size by decades
- K. Founders’ and BSL lecturers
- L. Faculty academic genealogy
- M. Visiting summer lab instructors
- N. UW hon. degrees given to our graduates
- O. Postdoc. fellows and visiting professors
- P. National Acad. of Engineering members
- Q. List of all degrees granted by ChE dept.