



"Rejuvenation of Raman Spectroscopy"

by

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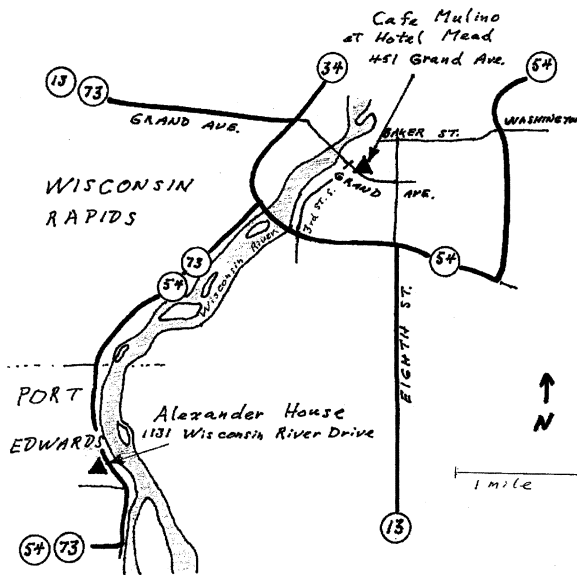
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Wisconsin Rapids

Raman spectroscopy has become a very important tool in chemistry. It is useful in a number of arenas including analytical measurements, mechanistic studies, and structural determinations. Although the technique is more than 70 years old, important developments with respect to new instrumentation and new interpretive tools have occurred within the past two decades. After a brief introduction to the field of Raman spectroscopy and its various techniques, the presentation will focus on various applications of the technique. At the Forest Products Laboratory, the speaker is deeply involved in developing and applying the techniques of Raman spectroscopy to study wood, pulp, and paper materials.

About the Speaker

Dr. Agarwal is a research Chemist at the USDA Forest Service Forest Products Laboratory, Madison where in addition to being responsible for Raman spectroscopy he is involved in research aimed at finding a solution to the photoyellowing problem of mechanical pulps. Prior to joining the Lab in 1989, he served as an assistant Professor and a research Scientist at the Institute of Paper Chemistry, Appleton (now, Institute of Paper Science and Technology, Atlanta). To his credit, Dr. Agarwal has published 46 papers, has given several invited talks & tutorials, and authored several review chapters on Raman. He is internationally recognized for his expertise in using Raman spectroscopy to study lignocellulosics. He is a member of ACS, TAPPI, Sigma Xi, and Alexander von Humboldt Association. Prior to coming to the U.S., Dr. Agarwal had appointments as postdoctoral Fellow at Universities of Salford (UK), Durham (UK), and Bielefeld (Germany). He completed his doctoral thesis work at the Indian Institute of Technology, Kanpur (India).



Gather at 5:30, eat at 6:00 at Café Mulino in the Hotel Mead, 451 E. Grand Avenue in Wisconsin Rapids. Hotel Mead is three blocks east of the Wisconsin River on East Grand Avenue. Please see map. Please call or e-mail Dave Thiel at (715) 422-2470 (days), (715) 887-4338 (evenings), dave.thiel@storaenso.com before noon on Tuesday to make a reservation for dinner.

Meeting begins at 7:30 at the Alexander House, 1131 Wisconsin River Dr. in Port Edwards on Highway 54,73. Please see map. To get there from the Hotel Mead:

- ①Go west to the first stop light at 3rd St.
- ②Turn left (south) onto 3rd St. and proceed about to the Riverview Expressway.
- ③Turn right, cross the river, turn left at the end of the bridge onto highway 54, 73.
- ④Proceed approximately 4.0 miles on the trip odometer. The Alexander house is on your right. The Alexander House is a combination art gallery and historical museum, and will open especially for us at 7:00 pm.