

OPEN FORUM

Call for Papers

In response to the suggestion of some of Professor T. O. Soine's former students and friends, as well as on the advice of the Editor of *J. Pharm. Sci.* concerning the publication of a group of papers in one issue in memory of Dr. Soine of Minnesota, we would like to set up the following guidelines:

1. All manuscripts submitted for this purpose should be addressed to:

Dr. Mary H. Ferguson, Editor
Journal of Pharmaceutical Sciences
2215 Constitution Avenue, N.W.
Washington, DC 20037

2. All papers should be indicated as "Dedicated to the memory of the late Professor Soine." This dedication should appear in the first footnote of the paper and be attached to the paper on a separate sheet.

3. The deadline for receipt of these papers is May 1, 1979.

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Received January 10, 1979.

Nondisintegration of a Capsule's Contents

A recent article in this Journal¹ forcefully called my attention, again, to the fact that our pharmaceutical industry scientists have not yet developed a good capsule disintegrant. Or, if they have, it is a well-guarded secret, known only to a select few. In view of the public posture espoused by Eli Lilly and Co. in regard to the innate quality of all products from the top manufacturers, it is difficult for this writer to conceive that they would produce a capsule product (in this case, aspirin) that was an intentionally "slowed" or "timed" release product without claiming that they did so deliberately.

The reader is referred to Figs. 2-5 in the above-cited article. By four different methods, aspirin dissolved more slowly at a stirring rate of 75 rpm from the capsule formulation than from two readily available tablet formulations. It is clear that the authors were studying dissolution rate methodologies and not dosage forms *per se*. Their results, however, agree quite well in magnitude and direction with much earlier work² whose intention was to compare dissolution rate availability of tablets and capsules as dosage forms. Apparently, no one has paid much attention to Paikoff and Drumm³ either since they reported that the contents of a capsule remained in a holder like a "sausage" after the gelatin shell was gone.

Once again, the challenge is expressed: capsule formulators need a good disintegrant, one as good as compressed starch in a tablet. The experimenter who develops one good enough (and cheap enough) will have created a "new" dosage form from a very old dosage form and should probably make a bundle.

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Received November 20, 1978.

¹ T. E. Needham, K. Shah, J. Kotzan, and H. Zia, *J. Pharm. Sci.*, 67, 1070 (1978).

² P. T. Shah and W. E. Moore, *ibid.*, 59, 1034 (1970).

³ M. Paikoff and G. Drumm, *ibid.*, 54, 1693 (1965).

FACULTY POSITION

Assistant Professor of Pharmacology. Ph.D. preferred but not essential. Undergraduate degree in pharmacy desirable. Primarily undergraduate teaching of pharmacology and biochemistry. University town of 14,000 on eastern edge of South Dakota.

Send resume to

Dean Raymond E. Hopponen
College of Pharmacy
South Dakota State University
Brookings, SD 57007

Affirmative Action/Equal Opportunity Employer

Development Pharmacist

The Upjohn Company's Veterinary Pharmacy area has an opening for a pharmacist to carry out research and development of various dosage forms intended for use in animal health. This job encompasses development of sterile parenterals, oral liquids and various solid dosage forms. Candidates should have a BS or MS in pharmacy.

Kalamazoo is a medium sized midwestern community offering an excellent mix of cultural/recreational pursuits. Comprehensive benefits and relocation programs. Submit resume in confidence to:

Myra W. Johnson
The Upjohn Company
7171 Portage Road
Kalamazoo, MI 49001

Upjohn

An Equal Opportunity Employer M/F

University of Georgia School of Pharmacy

Faculty Position in Pharmaceutics/Biopharmaceutics

Applicants are invited to apply for a full-time (12 months) faculty position at the Assistant Professor or Associate Professor level in the Department of Pharmacy of the University of Georgia School of Pharmacy. The starting date is flexible. Applicants should possess a B.S. degree in Pharmacy and a Ph.D. degree in Pharmaceutics and must be qualified to teach undergraduate and graduate courses in dosage form technology, biopharmaceutics and physical pharmacy. A strong background in analytical chemistry is desirable. The successful applicant is expected to participate in the graduate program and develop independent research programs. The salary is competitive and will be commensurate with qualifications and experience. The closing date for application is March 1, 1979, or until a suitable candidate is selected.

Interested candidates should send a letter of application accompanied by a curriculum vita and the names of three references to: D. E. Cadwallader, Ph.D., Head, Department of Pharmacy, School of Pharmacy, University of Georgia, Athens, Georgia 30602.

The University of Georgia is an equal opportunity affirmative action employer.

FACULTY POSITION IN PHARMACEUTICS/INDUSTRIAL PHARMACY

Due to retirement, a faculty vacancy on a tenure track will exist in September, 1979. In addition to participation in teaching the course sequence in pharmaceutics, the successful applicant will develop and teach elective courses in industrial pharmacy.

Located in a modern, air conditioned building constructed in 1972, the well equipped manufacturing laboratories, adjacent to the nuclear pharmacy and a sterile products laboratory, offer excellent potential for research activity.

The 1978 Fall enrollment in the School of Pharmacy is about 450 students in the last three years of a 2-3 program.

Ferris State College, with an enrollment of over 10,000 students, is situated on a relatively new campus, 55 miles north of Grand Rapids (Michigan's second largest city) and 40 miles south of Michigan's winter and summer resort and lake areas.

The candidate must have a Ph.D. with a major in pharmaceutics or related area and preferably be a registered pharmacist. Rank and salary are open and will be determined by educational background and experience.

Applicants should submit a letter of application and resume to: Dean Ian W. Mathison, Ph.D., School of Pharmacy, Ferris State College, Big Rapids, Michigan 49307 (616) 796-2641, Ext. 3300.

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