

National Research Council announces programs for 1973

National Science Foundation Graduate Fellowships

The National Research Council has been called upon again to advise the National Science Foundation in the selection of candidates for the Foundation's program of Graduate Fellowships. Panels of eminent scientists appointed by the National Research Council will evaluate qualifications of applicants. Final selection will be made by the Foundation, with awards to be announced on March 15, 1973.

Applicants to the NSF Graduate Fellowship Program must be beginning graduate students by the fall of 1973, or must have completed not more than one calendar year of full-time or part-time graduate study by the fall of 1973. Subject to the availability of funds, new fellowships awarded in the spring of 1973 will be for periods of three years, the second and third years contingent on certification to the Foundation by the fellowship institution of the student's satisfactory progress toward an advanced degree in the sciences.

These fellowships will be awarded for study or work leading to master's or doctoral degrees in the mathematical, physical, medical, biological, engineering and social sciences, and in the history and philosophy of science. Awards will not be made in clinical, education or business fields, in history or social work or for work leading to medical, dental, law or joint Ph.D.-professional degrees. Applicants must be citizens of the U.S. and will be judged solely on the basis of ability. The annual stipend for Graduate Fellows will be \$3600 for a 12 month tenure with no dependency allowances.

Applicants will be required to take the Graduate Record Examinations designed to test scientific aptitude and achievement. The examinations, administered by the Educational Testing Service, will be given on December 9, 1972, at designated centers throughout the U.S. and in certain foreign countries.

The deadline date for the submission of applications for NSF Graduate Fellowships is November 27, 1972. Further information and application materials may be obtained from the Fellowship Office, National Research Council, 2101 Constitution Avenue, Washington, D.C. 20418.

NRC Postdoctoral Research Associateships in Federal Laboratories

These associateships are temporary civil service appointments offered by the participating federal laboratories. They afford opportunities for basic research and advanced training to scientists and engineers of unusual ability and promise.

Appointments are made on a competitive basis and are limited to persons with less than 5 years postdoctoral experience. U.S. citizenship is required (except Bureau of Medicine & Surgery).

Salary: \$13,309 (subject to income tax and social security deductions). Final date for applications: January 15, 1973. Announcement of awards: April 1973. For details contact: Associateship Office JH 606, National Research Council, 2101 Constitution Ave., Washington, D.C. 20418.

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SD 3000 SYSTEM

QUANTITATIVE

TLC

Typical Quantitations:

- Aliphatic Lipids
- Alkaloids
- Amino Acids
- Amniotic Fluid Estriol
- Amphetamines
- Analgesics
- Antihistamines
- Antipyretics
- Antirheumatics
- Bacteriostatics/Bacteriocidals
- Barbiturates
- Bile Acids
- Blood/Urine Cortisol
- Carbohydrates
- Cholesterol
- Estriol in pregnancy urine
- Insecticides
- Malto-saccharides
- Mandelic Acid & Derivatives
- Phenols
- Phospholipids
- Polymers
- Porphyrins
- Pyrethins
- Sulfa-type Drugs
- Testosterone in urine
- Urinary Catecholamines
- Urinary Purines
- Urine-17 Ketosteroids

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AOCS members approve amendment to Articles of Incorporation

Through attendance at the special business meeting called at the Fall Meeting in Ottawa and through ballots returned to the Proxy Committee, a majority of AOCS members have registered approval of an amendment to Article VII, "Officers and Their Election," of the AOCS Articles of Incorporation. The amendment adds the phrase

• New Books . . .

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everything else that anyone would want to know about peanuts is included.

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Progress in Thin Layer Chromatography and Related Methods, Vol. III, Edited by A. Niederwieser and G. Pataki (Ann Arbor Science Publishers, Inc., Ann Arbor, Mich., 1972, 298 p.).

The third volume in this international series contains six contributions dealing with general topics of thin layer chromatography and specialized subjects. The authors of each chapter are in general active contributors to their areas of specialization. This book contains six chapters, divided into many subsections. Chapter 1 deals with the effects of chemical constitution on chromatographic behavior. The structural interactions of hydrocarbons, phenols, carbonyl compounds, quinones, carbonic acids, nitrogen-containing compounds and heterocycles, oxygen and sulfur heterocycles are discussed. In the second chapter, the effects of experimental parameters on the reproducibility of Rf values in thin layer chromatography are discussed in detail. The effects of solvent vapor, adsorbent quality and activity, chamber type, temperature, adsorbent layer thickness, solvent quality and general technique are stressed.

Chapter 3 covers in detail the application of thin layer chromatography to the separation of alkaloids. Methods of detection and quantitation are outlined. This chapter is exceedingly well documented with a total of 1050 references, containing numerous citations to literature as late as 1968. The next chapter treats the thin layer chromatography of porphyrins and complementary analytical methods.

An excellent discussion of the use of polyamide layers in thin layer chromatography comprises Chapter 5. This adsorbent functions by the formation of a hydrogen bond between the amide linkage in the polyamide and the deposited compound. Detailed applications of this technique to the separation of various amino acid derivatives are given.

In the last chapter of this volume, the applications of thin layer chromatography to air pollution research are outlined. The separation of common pollutant and chemical carcinogens found in coal tars, pitch, etc., is shown.

Each chapter contains an individual list of pertinent references. The short topical index to the complete volume is adequate but covers only major topics. Detailed separations, etc., must be found by searching the pertinent chapters. It would appear that the chapters dealing with effects of structure on separation and that covering influences of experimental variables on the reproducibility of Rf values might be the most useful to the lipid chemist.

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"except the treasurer who may serve four consecutive terms" to the final sentence in Article VII.

The amendment was proposed by the Governing Board after several past treasurers commented on the need for additional time to effectively carry out the duties of that office. The growing complexity of AOCS financial activities in recent years has added greatly to the treasurer's responsibilities. While the amendment makes possible an extended term for any individual elected to the office of treasurer, the membership will retain the opportunity to vote yearly on candidates for that office. Election to that post will not automatically qualify an individual for a 4 year term. ■

CALL FOR NOMINATIONS AWARD OF MERIT

The Society Award of Merit is to be presented to qualified Society members at the 64th Annual Meeting, New Orleans, April 29-May 3, 1973.

The Award is given to recognize current and past achievements in serving the Society:

- (a) Active productive service to AOCS committee work.
- (b) Marked leadership in technical, administrative or special committee or Society activities.
- (c) Outstanding activity or service that has particularly advanced the Society's prestige, standing or interest.
- (d) Any distinguished service to the Society not herein otherwise specifically provided for.

Nominations shall cite the record of the nominee which qualifies him for the Award, and five copies of the nomination shall be submitted to James Lyon, Executive Director, American Oil Chemists' Society, 508 S. Sixth, Champaign, Illinois 61820 before February 2, 1973. ■

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NRC Resident Research Associateship, Postdoctoral and Senior Postdoctoral

These associateship programs also provide opportunities for basic research and advanced training to scientists and engineers of superior ability. Like the above, awards are made on a competitive basis and are tenable in federal laboratories.

Resident Research Associateships are awarded to persons with less than 5 years research experience beyond the doctorate. Senior Associateships are available to scientists and engineers of demonstrated accomplishment with at least 5 years postdoctoral experience. These programs are open to U.S. citizens and, in some cases, to foreign nationals.

Final date for applications: January 15, 1973. Announcements of awards: April 1973. NASA: Completed applications and official endorsement of these by the NASA Center, must be received by January 15, May 15 and September 15, 1973, to be reviewed for awards to be announced in March, July and November, respectively. Stipends: Postdoctoral, \$13,500 annually (Natick Laboratories \$13,000). Senior: Dependent on qualifications. All stipends are subject to U.S. income tax. For details contact the NRC Associateship Office (address above). ■