

## Campus Ministry

Rev. Monte Peters 459-5673 or 450-2883  
 Rev. Neville Cheeseman 453-5089 or 454-6507  
 Dr. John Valk 459-5962 or 453-5089  
 Alumni Memorial Building, Room 3

**Movie Review:** Come join us to watch, review and discuss some well-known and not so well-known movies. This week, "Crossing Delancy", a movie about relationships. All are welcome, after our spaghetti supper. Monte Peters' Residence, Apt. 2, Bridges House.

**Spaghetti Suppers:** Every Friday at 5:00pm. Monte Peters' Residence.

**InterVarsity Christian Fellowship:** For an evening of Bible study, discussion, fellowship and fun, join us every Thursday evening at 7:30pm, Monte Peters' Residence. Topic of discussion this week, "Biblical Sense of Community".

**Christian Meditation:** The Christian Meditation group which follows the teaching of the Benedictine monk John Main (1922-82), will meet every Monday at 7:00pm, starting September 20, 1993. At Monte Peters'. The meetings are free and non-denominational. Everyone is welcome. For more information, contact Kathleen Crowley, 459-9623.

**Catholic Masses:** St. Thomas Chapel; Mon-Fri, 11:30am; Sunday Masses 11:00am and 4:00pm.

**Anglican Eucharist:** Sunday 11:00am, Wed. and Thurs., 12:30pm. Old Arts Chapel.

## Federal cash coming in

# UNB receives research grants

The Natural Sciences and Engineering Research Council of Canada (NSERC) has awarded more than \$3.3 million to researchers at the University of New Brunswick in support of new and continued research, graduate studies, and the purchase of related equipment for the 1993-94 academic year.

The results of some applications are still pending, and UNB research officials estimate that the current total of \$3,339,608 in operating and equipment grants could increase to about \$3.75 million when all results are in.

"This year's operating grant total represents a modest increase of two to three per cent over last year," said Frank Wilson, UNB's vice-president (research and international co-operation). "Considering the vigorous competition for these grants and the fact that NSERC's budget was frozen for 1993-94, an increase of any size is a remarkable achievement."

"It's especially encouraging to see the successes of so many new researchers at UNB," Dr. Wilson continued. "They represent the kind of expansion of research experience and expertise that will keep our university among

the most active and productive research institutions in the country."

On UNB's Fredericton campus, researchers in the faculties of administration, arts, computer science, engineering, forestry and science garnered awards valued at \$3,095,906.

The science faculty received the highest support total with \$1,308,157 going to 42 grant holders in five departments. Bruce Balcom, a newcomer to the physics department, received both a \$52,460 equipment grant and an operating grant of \$25,000 a year for three years in support of his unique research initiative applying magnetic resonance imaging—a standard technique in medical science—to the physical sciences. Dr. Balcom will use both grants to conduct research in high-tech, high value-added materials, such as light responsive plastics.

Chemistry professor Frank Bottomley received the single largest equipment grant at UNB. His award of \$59,344 will be used to purchase a CACHE molecular modeling and computer system, which will enable him to calculate and graphically depict the shapes and symmetries of chemical clusters.

Forty-seven researchers in five departments of the faculty of engineering received \$1,266,066 in support for their projects.

New researcher Peter Bischoff, a professor in UNB's civil engineering department, received a \$15,000 grant, which is renewable for two years. His study is focused on two areas: developing formulas and guidelines for reinforcement, stiffness and expected crack widths in concrete structures and investigating the response of concrete under extreme impact loading, as for example with nuclear reactors and offshore oil-producing structures.

James Venart, a mechanical engineering professor and director of UNB's Fire Science Centre, got the year's largest new operating grant from NSERC.

The award of \$62,000, which is renewable for an additional two years, will support his research on thermal properties and heat transfer of fluids.

With co-workers and students, Dr. Venart recently identified the mechanism producing the most violent explosions of liquefied gases under pressure. Their research focuses on devising preventative and protective measures against such explosions.

Included in the grant total for the faculty of engineering is \$93,000 awarded to two UNB institutes. A researcher in the Fire Science Centre was given \$24,000 in grant support, while three researchers in the Institute for Biomedical Engineering received \$69,000 to help fund their work.

In the faculty of forestry, eight researchers in two departments were awarded \$149,183 to assist in their research.

Forest resources professor Mark Jammick, who received \$22,000-a-year grant renewable for two additional years, will work with managers of the Fundy Model Forest to develop a forest management planning system which integrates short-term, medium-term, and long-term planning for timber, wildlife and other resource values.

Seven researchers in the faculty of computer science received grants totaling \$107,000.

New faculty member William Hyslop will use his grant of \$11,000 a year for three years to develop a performance prediction tool for information systems. His ultimate goal is to produce guidelines in constructing and maintaining database systems for optimum performance.

The faculty of administration received \$102,500 in grants to support the work of seven researchers. K.P.K. Nair's work, supported by a \$22,000-a-year grant for three years, aims at enhancing the capability of decision-making in the real-world context of transportation, communication and planning.

In the arts faculty, two psychologists had their grants totaling \$50,000 renewed. Gil Robinson is on his second installment of a three year, \$35,000-a-year grant to examine neural mechanisms of learning, memory and epilepsy.

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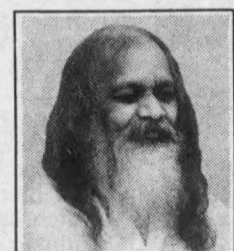
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**TM LECTURE**


**FREE INTRODUCTORY LECTURE WEDNESDAY SEPTEMBER 29**

**ON CAMPUS 12:30 PM**  
 MacLaggan Hall Room 109


**DOWNTOWN 7:30 PM**  
 Fredericton Public Library Assembly Room (2nd floor)




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