

MATHEMATICS DEPT. TO HOLD RESEARCH WEEK IN GEOMETRY

□Lakehead University's Mathematics Department will hold a Research Week in Geometry from March 31 through April 4.

The principal speaker will be Professor Gian-Carlo Rota from the Massachusetts Institute of Technology, who will give five one-hour lectures on "Combinatorial Geometries" during the week. Professor Rota is an internationally known scholar and one of the worlds leading experts in Combinatorics. He is co-editor of a number of Mathematical Journals, including the "Bulletin of the American Mathematical Society".

Faced with a widening gap between traditional classical geometries and the modern branches of mathematics, Professor Rota has unified very different approaches with research of his

POLISH MATHEMATICIAN TO BE LECTURE SERIES SPEAKER

□Lakehead University will host the distinguished Polish mathematician and scientist, Dr. Kazimierz Kuratowski from April 4 until April 7.

Dr. Kuratowski will deliver mathematical lectures and participate in a research week in mathematics, devoted to problems in geometry.

As a guest of the university's Special Events Committee, he will also give a public lecture on the organization of mathematics in Poland. It will begin at 8:30 p.m. in the University Centre Theatre on Friday, April 6.

Dr. Kuratowski was born in Warsaw, in 1896, and his professional life has spanned a period of cruel conflict in Europe. Nevertheless scientific activity in Poland has flowered and he has been a major contributor to the development of the mathematical science of Topology. Kuratowski attended the University of Glasgow and earned his Doctorate at the University of Warsaw in 1921 and has been a Professor there since 1934. During the war, he was a Professor in the clandestine University of Warsaw. After the war, Polish science had to be reconstructed and Kuratowski has played a central role, both as Vice-President of the Polish Academy of Science from 1957-68 and was founder of the Polish Mathematical Institute, which he served as President for 19 years.

In recognition of his important role in mathematics and in the sciences of his country, Professor Kuratowski has received many awards, among them Honorary Doctorate Degrees from the Universities of Glasgow, Prague, Wroclaw and Paris. He speaks with great knowledge of the events of this century, and their impact in scientific and human terms.

own on Combinatorics into what it is hoped will become a new fundamental concept of Mathematics: "Combinatorial Geometries". This extremely general notion of geometry is based on lattice theory. Its generality permits it to give a common approach to such diverse subjects as the four colour problem, graph theory, combinatorics, classical geometries, finite incidence structures, extension fields, and combinatorial topology.

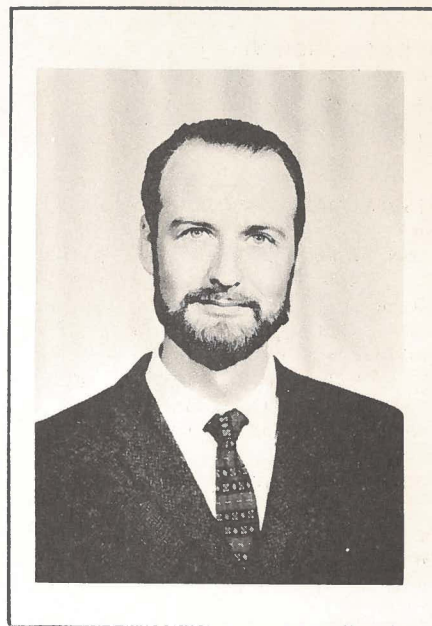
Lakehead is one of the first to cover parts of a preprint version of the forthcoming book by G. C. Rota and H. Crapo entitled "Combinatorial Geometries" in its Honors Mathematics course. The book presents the first uniform treatment on this rapidly developing subject.

In addition to Professor Rota, other outside speakers and members of the L.U. Mathematics Department will give talks on the recent development of the theory. Informal meetings and discussions on open problems will also be held during the week. The Research Week is open to all Math majors and interested persons.

MUSIC NOTES

□The final Wednesday Night Music Concert for this season will be held in the Agora on April 8. It will feature a demonstration workshop in music by members of the "Man and His Arts" course.

On Friday, April 10 the Philharmonic Woodwind Quintet will play "Contemporary Music" in the faculty lounge.



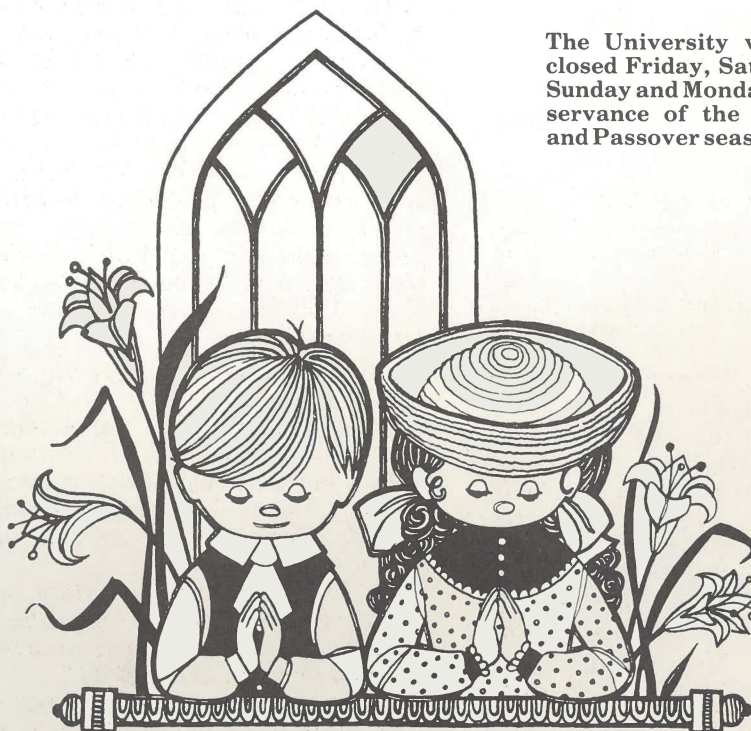
DR. S. MAGWOOD

□Dr. Stan Magwood was named the new President of the L.U. Faculty Association at a meeting on March 23. The retiring President, Dr. John Mothersill will remain on the executive committee of the association this year as the vice-president.

Other members of the executive include:

Dr. E. R. Zimmerman
Corresponding Secretary
Dr. Brian Phillips Treasurer
Dr. Elizabeth Arthur
Member-at-Large
Mrs. Carol Faulkner
Recording Secretary

Dr. Magwood is Assistant Professor of Biology at L.U. He joined the university's academic staff in 1965.



The University will be closed Friday, Saturday, Sunday and Monday in observance of the Easter and Passover season.

WEEKLY EVENTS

Comment

□ The following article entitled "Has Lakehead University lost chance to be northern research centre," appeared in the Thursday, March 19-70 edition of THE GLOBE AND MAIL. It was written by Ross H. Munro.

MONDAY, MARCH 30

Easter Monday - University Closed
2 pm Cambrian Players Reh. Aud.

TUESDAY, MARCH 31

9 am - Mathematics Research
12 noon Week, Speakers, see Rm.
2:30- story 1021 C
5:30 pm
11:30- Film Appreciation Club
12 mid. films-"Killers Three" &
"The Odd Couple" Aud.
12 noon Board of Governors
Executive Committee Little
Meeting Din. Rm.
12 noon Rochdale College
Speakers - Wilfred
Peltier and Jack Jones Aud.
7 pm Engineering Seminar Rm. 012

WEDNESDAY, APRIL 1

8:30- Mathematics Research
11:30 am Week, Speakers Rm. 1000
& 2-5 pm
2:30 pm Extension and Summer
Session Committee Meet.-Little
Din. Rm.
8 pm AMS Meeting Bd. Rm.

THURSDAY, APRIL 2

8:30- Mathematics Research
11:30 am Week, Speakers Rm.
& 2-5 pm 1021 C
7:30 pm French Club Films Aud.

FRIDAY, APRIL 3

9 am - Mathematics Research
12 noon Week, Speakers Rm.
& 2:30- 1000
5 pm
7 pm Cambrian Players Reh. Aud.

SATURDAY

9 am - Mathematics Research
12 noon Week, Speakers Rm.
2-5 pm 1000
6:30 pm Film Appreciation Club
3 a.m. films "Cool Hand Luke"
& "What Did You Do In
The War Daddy?" Aud.

SUNDAY, APRIL 5

1:30 pm- Film Appreciation Club
12 films - same as Sat. Aud.
7 pm W.U.S.C. Meeting Rm. 1023

**** All events subject to last minute
change****

□ LU WEEK is published weekly by the Dept. of Information Services at Lakehead University, Oliver Road, Thunder Bay, Ont. and distributed free of charge to faculty students, administrative staff and friends of the University. Copy should be sent to the Information Office by 5 p.m. on Wednesday for publishing in the following WEEK.

Judy B. Breakey, Editor
Gail Keffer, Secretary

Vol. 2, No. 28 March 26, 1970

"There were a lot of us who thought this university would serve Northern Canada - it hasn't worked out that way."

Professor Kenneth Dawson of Lakehead University has the credentials to make that statement stick. He's the university's director of northern area studies.

On a recent cold and sunny afternoon, Mr. Dawson talked about why his university has so far missed its chance to become a centre for northern research - especially research to examine independently current and proposed changes in the social, economic and ecological structure of the North.

Mr. Dawson laid most of the blame on his own university's administration which, he said, has never put a high priority on northern research, has never gone out of its way to recruit academics interested in the north and has never put much money into northern research.

There's a lack of support at the top level," Mr. Dawson said. "The president should be saying - 'This is what we must be doing'."

Virtually all northern research at the university has strings attached, he said. There are currently about 20 northern-oriented projects being conducted by archeologists, economists, sociologists, geologists, biologists and others.

Most of the projects serve the special needs of provincial and federal Government departments which commission and finance them. Mr. Dawson does not oppose this type of research - his committee on northern area studies acts as a conduit for the funds.

"But our real problem is that we have very few unattached dollars for students and professors to do basic research on the North."

This is partly the fault of Government agencies which are reluctant to hand out unattached dollars, he said, but it is also the fault of the university. Mr. Dawson said university president William G. Tamblyn has not aggressively pursued such funds. And he added that northern research gets less than \$1,000 a year from the university's budget.

Mr. Dawson then made the more serious charge that professors engaged in independent and critical research - into water pollution caused by industry, for instance - do not receive promotions or other rewards as quickly as other professors.

"There is no explicit policy, but people who are trying to make a contribution are discriminated against one way or another."

He gave some examples of local situations where there is an urgent need for independent, critical research:

-There is already evidence

available indicating that tree harvesting for pulp mills could turn parts of Northwestern Ontario into desert within 50 years, he said. Reforestation often fails, because the new trees tie in thin northern soil. Then the soil loses its nutrients and other vegetation dies too.

"The whole ecological thing has to be studied," Mr. Dawson said. "We do know this - it's a very sensitive balance up here - the regrowth factor is very slow."

Most faculty members have little knowledge about or interest in the North when the university hires them, Mr. Dawson said. It takes at least two years for an academic to reorient his research interests, and often this never happens.

"These people know about Philadelphia but very little about the situation around here. Research should be done by people in the North who are committed to staying in the North."

Mr. Dawson, who was trained as an archeologist, first came to the Lakehead in 1961 as local director of the federal Government's Industrial Development Bank.

The teaching program reflects Lakehead University's northern location even less than the research program. Recently the university announced a Taiga Studies program which it described as an "inter-disciplinary module designed to offer undergraduates an opportunity to study several facets of the immediate area."

But an examination of the program makes it obvious that it's an attempt to paper over the real lack of courses on the North. According to descriptions in the university calendar, most courses offered under Taiga Studies don't relate to the North at all. Others are peripheral. An advanced biology course and an introductory forestry course are the only ones wholly concerned with the North.

President Tamblyn's explanation for this situation is that if the university had a unique curriculum, its students would have difficulty getting into other universities after they finished at Lakehead.

The president added that students have never expressed much interest in northern studies.

"One of the last things a student from Atikokan wants to do is become a geologist and go back to Atikokan," he said. Mr. Tamblyn qualified that by saying many of Lakehead's graduates happily return to the North after spending a few years in Southern Ontario.

Mr. Tamblyn said the university's prime responsibility is to offer students the courses they want, whether they relate to the north or not.