

SUMMER SEMINAR

The seminar of 1963 was held at the University of Saskatchewan from August 14 to 30. There was a series of Instructional Lectures, a series of Research Lectures, and a series of Colloquium Talks. The theme of the seminar was combinatorial mathematics, but the programme included other topics. Details of these activities are to be found on the following pages:

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Research Lectures

- R. H. Bruck, University of Wisconsin
- Existence Problems for Classes of Finite Planes
- K. Kuratowski, University of Warsaw
- Semi-Continuity in Topology
- G. Pickert, University of Giessen
- Projective Planes
- E. M. Wright, University of Aberdeen
- Partitions

Instructional Lectures

- A. L. Dulmage, University of Manitoba
- Combinatorial Problems in Graph and Matrix Theory
- A. P. Guinand, University of Saskatchewan
- Fourier Transforms and Summation Formulae
- W. T. Tutte, University of Waterloo
- Graph Theory
- R. G. Stanton and D. A. Sprott, University of Waterloo
- Types of Statistical Designs

Colloquium Talks

Chairman: A. Renyi

- A. Renyi,
Information theory methods in combinatorial problems.
- J. Edmonds,
Sources, sinks and vortices in planar maps.

- D. R. Fulkerson,
On the maximum number of disjoint permutation matrices
in a $(0, 1)$ matrix.
- H. J. Ryser,
On the structure of $(0, 1)$ tournament matrices.
- D. Sprott,
Generalizations arising from a family of difference sets.
- R. C. Bose,
Partial geometries.
- R. E. Greenwood,
Edge chromatic graphs and the Ramsey numbers.
- R. Sandler,
Automorphisms of planar ternary rings.
- M. Wells,
Computing machines and combinatorics.
- R. Norman,
The Polya enumeration principle.
- R. Craig,
Extensions of projective planes to uniform Hjelmslev
planes.
- W. Jonsson,
Projective planes of class I_6 .
- T. Ostrom,
Projective planes with a single $(P, 1)$ transitivity.

Opening Session

President Spinks of the University of Saskatchewan welcomed all participants and their wives at a formal opening session, Monday evening, August 14. Mayor Buckwold welcomed the delegates on behalf of the city of Saskatoon.

Entertainment

Members of the seminar and their wives were entertained by President and Mrs. Spinks on the evening of the opening day at the Memorial Union Building. Various other social activities were also organized by members of the Department of Mathematics at the University of Saskatchewan.

A highlight of the social activities was a one-day excursion to Prince Albert, about 80 miles north of Saskatoon, to visit the radio observatory. After this interesting visit and dinner in the local hotel, the party returned to Saskatoon by way of Batoche, the scene of the final action in the Louis Riel rebellion. While in Batoche, the members visited the old church, now a museum, which is kept in its original state, and saw the many interesting items on display there. On the return to Saskatoon, the party completed the day with a picnic at the city park.

List of those attending the seminar

Artiaga, L.	University of Windsor, Windsor
Baker, J. A.	513 Dufferin Avenue, Saskatoon
Bertolini, F.	University of Pittsburgh, Pittsburgh
Birkinshaw, E. A.	Brandon College, Brandon
Blum, E.	Acadia University, Wolfville, N. S.
Blum, R.	University of Saskatchewan, Saskatoon
Bode, Anne	University of Western Ontario, London
Bose, R. C.	University of North Carolina, Chapel Hill
Brown, W. G.	University of British Columbia, Vancouver
Bruck, R. H.	University of Wisconsin, Madison
Chakravartty, I. C.	University of Saskatchewan, Saskatoon
Craig, R.	Fordham University, Bronx
Crapo, H. H.	Northeastern University, Boston
Crapo, Mrs. H. H.	Radcliffe College, Boston
Cuttle, P.	University of Saskatchewan, Saskatoon
Cuttle, Mrs. P.	University of Saskatchewan, Saskatoon
Dulmage, A. L.	University of Manitoba, Winnipeg
Duncan, A. K.	University of Toronto, Toronto
Edmonds, J.	National Bureau of Standards, Washington
Foster, B. L.	Denver Research Center, Littleton, Colo.
Fulkerson, D. R.	13125 Warren Avenue, Los Angeles
Garner, C. W. L.	University of Toronto, Toronto
Guinand, A. P.	University of Saskatchewan, Saskatoon
Greenwood, R. E.	University of Texas, Austin
Hall, C. D.	University of Saskatchewan, Saskatoon
Hayes, J. C.	Collège Militaire Royal, St. Jean, P. Q.
Herzberg, A. M.	University of Saskatchewan, Saskatoon
Hiergeist, F. X.	University of Pittsburgh, Pittsburgh
Hrycay, R.	713 Temperance Street, Saskatoon
Hsu, H.	University of Saskatchewan, Saskatoon
Jeffery, R. L.	Acadia University, Wolfville, N. S.
Jonsson, W. J.	University of Manitoba, Winnipeg

- Kalbfleisch, J. G. University of Waterloo, Waterloo, Ontario
 Kelly, J. B. Arizona State University, Phoenix
 Kuratowski, K. University of Warsaw, Warsaw, Poland
- Langerholc, J. University of Pittsburgh, Pittsburgh
- MacNeill, I. B. Ste 15, Braemar Apts., Saskatoon
 Malik, M. A. 2442 Maplewood, Montreal
 Martin, J. R. 1314 Osler Street, Saskatoon
 Melter, R. University of Rhode Island, Kingston
 Mendelsohn, N. S. University of Manitoba, Winnipeg
 Miller, C. E. University of Saskatchewan, Saskatoon
 Moser, W. University of Manitoba, Winnipeg
 Moser, L. University of Alberta, Edmonton
 Mullin, R. 14 Lonsdale Drive, Guelph, Ontario
 Murdeshwar, M. University of Alberta, Edmonton
- Nasim, C. University of Saskatchewan, Saskatoon
 Norman, R. Dartmouth College, Hanover, N. H.
- O' Connor, R. Eric Loyola College, Montreal
 Ostrom, T. G. Washington State University, Pullman
- Pearson, T. L. 1122 - 13th St. E., Saskatoon
 Pickert, G. University of Giessen, Germany
 Pullman, N. J. McGill University, Montreal
- Renyi, A. University of Budapest, Hungary
 Ritcey, L. F. S. Canadian Mathematical Congress, Montreal
 Robinson, G. de B. University of Toronto, Toronto
 Rohatgi, V. K. University of Alberta, Edmonton
 Roth, R. L. University of Colorado, Boulder
 Ryser, H. J. Syracuse University, Syracuse, N. Y.
- Sandler, R. 202 Linden Lane, Princeton, N. J.
 Saucier, J. 226 St. George St., Toronto
 Seiden, E. Michigan State University, E. Lansing
 Sherk, F. A. University of Toronto, Toronto
 Shklov, N. University of Saskatchewan, Saskatoon
 Smith, R. A. Pennsylvania State University,
 State College, Penn.
- Sprague, R. H. Iowa State University, Ames
 Sprott, D. A. University of Waterloo, Waterloo, Ontario

- Stanton, R. G. University of Waterloo, Waterloo, Ontario
Sudler (Jr.), C. 1025 2nd Street, Santa Monica, California
- Thomas, G. University of Saskatchewan, Saskatoon
Tingley, A. J. Dalhousie University, Halifax, N.S.
Tutte, W. T. University of Waterloo, Waterloo, Ontario
- Upadhyay, M. D. University of Saskatchewan, Saskatoon
- Wahab, J. H. Charlotte College, Charlotte, N.C.
Wells, M. B. 190 Manhattan Loop, Los Alamos, N.M.
Williams, W. L. G. Canadian Mathematical Congress, Montreal
Wright, E. M. University of Aberdeen, Scotland
- Younger, D. H. Princeton University, New Jersey
- Zeiler, F. University of Manitoba, Winnipeg

