



1979-80





GEOLOGY JOURNAL

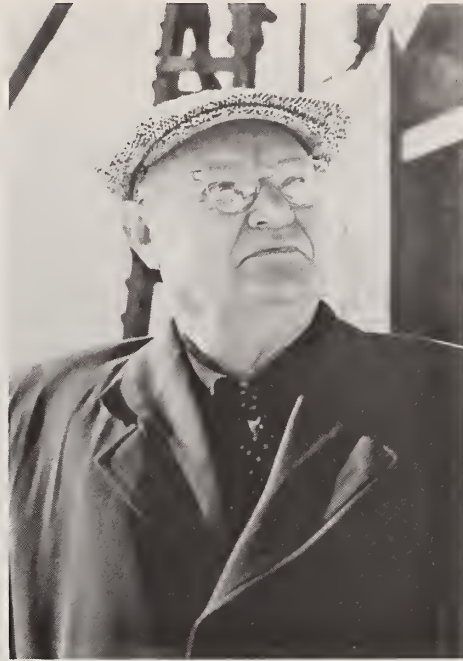
1979 – 80



5TH EDITION



Dedication



JULIAN GIFFORD CROSS
1888-1972

The diamond drill, perched on the ice of Steep Rock Lake in Northwestern Ontario, chugged away, the sound of its steam engine muffled by the snow. The driller called to a man who was sitting in a corner of the drill shack writing in a notebook. The man picked up some of the sludge, looked at the dark brown specks for a moment, and then quietly said, "Well, that's just worth a million dollars to me!"

Julian Gifford Cross probably had reason, that March day in 1938, to be much more excited than he appeared to be. The hematite fragments that he held in his hands were the first proof that iron ore lay under the waters of Steep Rock Lake. He must have felt a tremendous sense of satisfaction at that moment in knowing that his theory, developed ten years before had been proved correct. In spite of the set-backs, disappointments, and skepticism from his colleagues, he had stuck stubbornly to his conviction that iron ore lay beneath Steep Rock Lake.

The Steep Rock iron ore deposit was not the only major discovery made by Julian Cross. In the late 1920's, Julian and his brother John staked claims at Shebandowan Lake in Northwestern Ontario. It was on these claims that they discovered the Shebandowan nickel deposit. In the early 1930's, INCO purchased the claims from the Cross brothers for \$250,000 and, a good portion of this amount became the seed money for the start of exploration at Steep Rock Lake.

Those who knew Julian Cross, when asked to describe him, invariably used words like "quiet", "tenacious", "persistent", and "kindly". For the man who was the discoverer of two major orebodies he was completely unspoiled. He is best known, and probably happiest as a prospector — and a remarkably successful one — with a packsack on his back, and a prospector's pick in his hand.

Taylor, B., 1978, Steep Rock — The Men and the Mines
Quetico Publishing, Atikokan Ontario, 144p.



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Lakehead  University

Message from the President



ON BEHALF OF MY COLLEAGUES, I WOULD LIKE TO TAKE THIS OPPORTUNITY TO EXTEND MY CONGRATULATIONS TO THIS YEAR'S GEOLOGY GRADUATES, AND TO WISH YOU WELL IN YOUR FUTURE ENDEAVOURS.

LAKEHEAD UNIVERSITY'S GEOLOGY PROGRAM IS RECOGNIZED AS ONE OF THE FINEST IN THE PROVINCE AND YOUR DEGREE WILL STAND YOU IN GOOD STEAD IN THE EVER-EXPANDING FIELDS OF GEOLOGY, ENERGY AND FUEL DEVELOPMENT.

ONCE AGAIN, GOOD LUCK; AND KEEP IN TOUCH WITH YOUR UNIVERSITY.

G.A. HARROWER,
PRESIDENT.

***Compliments of the
Faculty of Science***



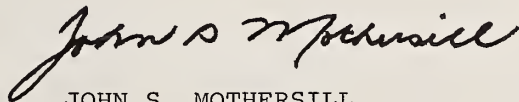
Lakehead University

Message from the

Dean of Science

Once again it is my pleasure to compliment the Editor and Staff of the Geology Yearbook for covering a very important aspect of student life at Lakehead University. The Yearbook is a permanent record of the academic, professional and social activities of students majoring in Geology at Lakehead University. I note that it is one of two yearbooks published at the discipline level at Lakehead University. I wish those students who contributed to this yearbook my best in taking part in this very worthy venture.

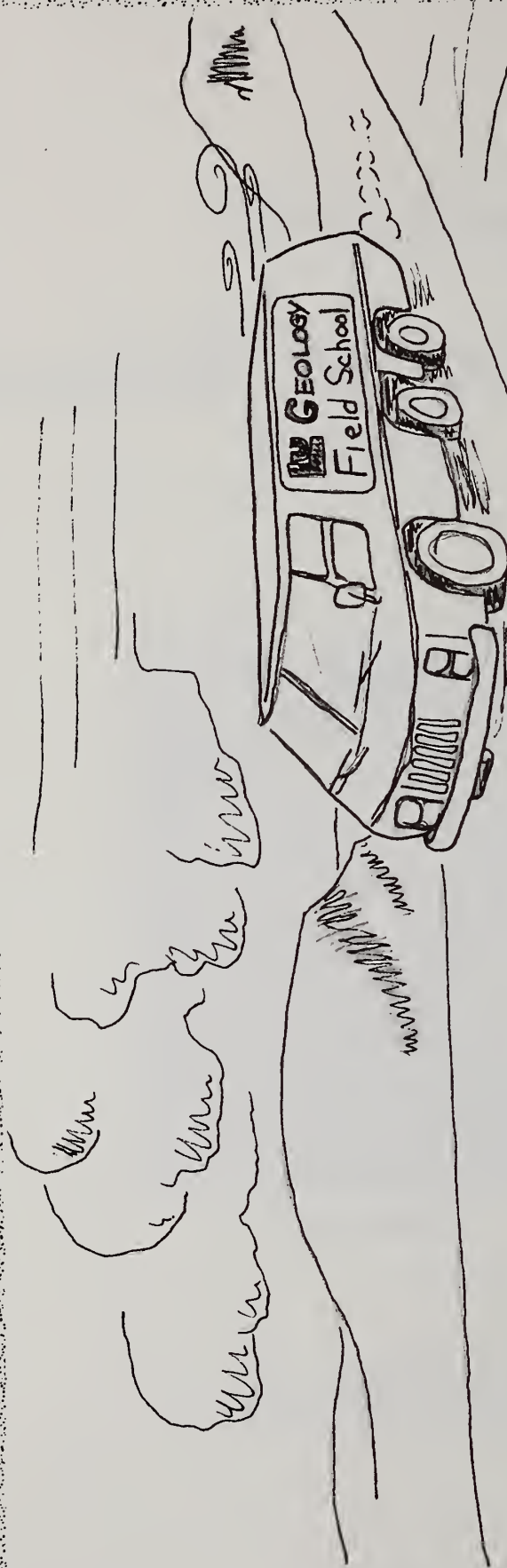
Yours sincerely,

A handwritten signature in cursive script, reading "John S. Mothersill".

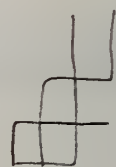
JOHN S. MOTHERSILL

Dean

Faculty of Science



Oh Christ!
Don't Look Now,
George, But
I've Got A
Bad Feeling!
About This!



b.cheadle

Message from the Chairman

IT IS WITH GREAT PLEASURE AND A MEASURE OF PRIDE THAT I CONGRATULATE THE EDITORIAL BOARD AND THE MANY CONTRIBUTORS WHO MADE THIS ACCOUNT OF STUDENT ACTIVITY A SUCCESS.

YOUR GROUP HAS SHOWN THEIR ABILITIES TO UNDERTAKE A MAJOR TASK AND CARRY IT TO A SUCCESSFUL COMPLETION EVEN THOUGH NUMEROUS OBSTACLES HAD TO BE OVERCOME ALONG THE WAY AND THE ROAD WAS NOT ALWAYS SMOOTH.

IN THE NOT TO DISTANT FUTURE YOU WILL EMBARK ON YOUR CHOSEN CAREER AS A GEOLOGIST. IT IS OUR HOPE THAT YOU WILL BE SUCCESSFUL IN YOUR PROFESSION AND THAT THE EDUCATIONAL EXPERIENCES AND FRIENDSHIPS YOU NOW ENJOY WILL CONTINUE TO SERVE YOU WELL IN LATER LIFE.

A handwritten signature in black ink, appearing to read "M. M. Helander". The script is fluid and cursive, with a large, stylized final flourish.

CHAIRMAN

CONGRATULATIONS AND BEST WISHES

to the Graduates

M. W. BARTLEY & ASSOCIATES LTD.

Geologists

209 Winnipeg Avenue

Thunder Bay, Ontario

the

Lakehead University Geology Club

*Wishes all Students a very Successful
Summer Exploration Season*

Rob Bennett, President

John Pearson, Vice-President



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Red River Road and Junot

Faculty & Staff





Dr. John Sydney Mothersill, B.Sc. (Physics,
Mathematics)
B.Sc. (Geological
Engineering)
Ph.D.

Background;
Exploration Geologist for Standard Oil (N.J.)
Senior Geologist for Mobil International Oil Co.
Exploring for petroleum in Turkey, Nigeria,
France and Colombia, 1956-64
Associate Professor, Lakehead University 1966-78
Professor, Lakehead University 1978-present
Dean of Science at Lakehead 1975-present

The primary areas of research in which I have been involved during the past several years are late-Quaternary paleomagnetic studies and sedimentologic studies. The paleomagnetic studies consist of determining the late-Quaternary paleo-declination, paleo-inclination, paleo-susceptibility and paleo-magnetic intensity columns for northern Lake Superior for time parallel correlation purposes. This study has been extended into eastern Lake Superior and Lake Huron to provide a time parallel correlation grid for the Great Lakes. In addition, the natural remanent magnetic direction will be used to determine the virtual geomagnetic path for the late-Quaternary.

The sedimentological studies were centred around the Batchawana Bay area and emphasize the use of grain size parameters as determined by the method of moments to discriminate environment and sub-environment processes. The Batchawana area, which comprises a number of sedimentological environments, will be used as a model for the post-glacial sediments exposed along the eastern part of Lake Superior and for the deep-water lakes in general.



Dr. Edward Mercy, B.Sc., Ph.D., D.I.C.

Background;

Lecturer in Geology, Imperial College of Science and Technology, London, England

Lecturer in Geology, later Senior Lecturer in Geology, University of Edinburgh, Scotland

Professor of Geology and Chairman of the Department, Lakehead University 1967-76

Professor of Geology at Lakehead 1976-present

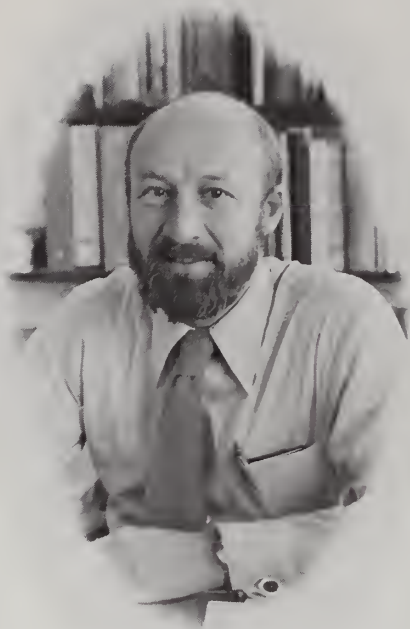
Most of the existing textbooks of geochemistry are disappointing to anyone who has a real interest in the subject matter. They are disappointing because, in attempting to be comprehensive, they trivialize the subject.

There are serious economic constraints on the size and cost of a publication intended primarily for the university student market. Comprehensiveness flies out the window and the house is occupied by a poor half-starved creature masquerading as geochemistry. The falsity of his pose is compounded by his declaration that parts of mineralogy and petrology may be offered as substantial fare for those who hunger after knowledge. The essence of this purveyor of mis-information is his belief that he knows about that which he writes and that all that he writes is all that is needful to know. That he does it deliberately can hardly be maintained. That he does it at all must be because he knows no better.

A serious critic ought to be prepared to redress the iniquities he discovers in others even though in doing so he may impose upon himself a task of some considerable magnitude. Naturally, having made the decision to play the role of creator rather than critic, he then seeks to place limitations on the nature and extent of his dissertation so that the result may have a defined purpose. Despite the gross enlargement and mis-use of the term in recent years, geochemistry is properly concerned with the distribution of the chemical elements in Earth and is, in this proper connotation, a fascinating subject of study with important, and sometimes critical, implications for the general scientific understanding of our planet.

There are three limitations on the scope of the proposed textbook which provide the essential framework within which the principles of geochemistry may be established. The first is that the overall chemical composition of Earth and the manner of its formation and rapid evolution into a heterogeneous body must be assumed on the basis of the extensive knowledge provided by astronomers, meteoriticists, and geophysicists. The second is that the accessible igneous rocks of Earth's crust, knowledge of these being provided by mineralogists and petrologists, are suitable objects of study for the provision of the necessary geochemical data. The third is that the writer and the reader have a sufficiently wide and detailed knowledge of geology and chemistry that the discovery and illumination of principles takes place without laborious, tedious and repetitious explanation.

Given these parameters and provided that the focus of attention is firmly fixed on the behaviour of the elements, then a textbook can be constructed. Whether it has any principles - the author assumes as a philosophy that principles do exist to be discovered and explained - is for the reader to decide.



Dr. Manfred M. Kehlenbeck, B.A., M.S., Ph.D.

Background;

Visiting Professor, University of New Brunswick
1969-70

Teaching Fellow, Queen's University 1970-71

Assistant Professor, Lakehead University 1971-76

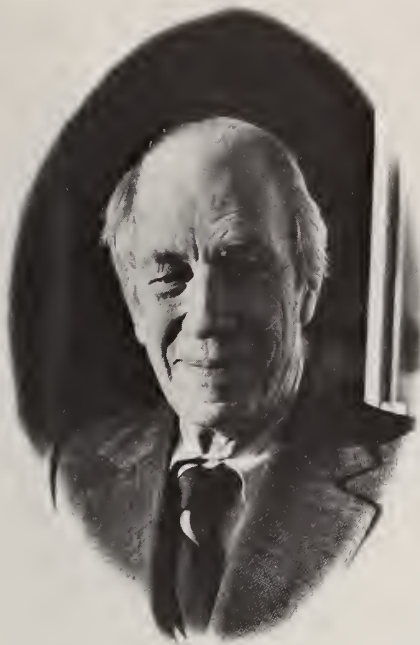
Associate Professor and Chairman of the Geology
Department, Lakehead University 1976-present

This past field season began in late April with the field school trip down the not-too-sunny shore of Lake Superior. Attempts to reach the Ely greenstone belt and the Soudan iron formation were unsuccessful, and our two vans had to beat a hasty retreat from what rapidly became a winter wonderland.

From late May to the end of June, Warren Clendining and I crossed many a farmer's field around Lappe in search of cleavages, graded-beds and pillows with the hope that all these would somehow merge into a coherent story of structure and stratigraphy. It appears that our efforts were not in vain. In late June the sun finally decided to let summer enter Northwestern Ontario. After some very hot and dusty days, we packed up, and along with a rather questionable vessel known simply as "Rubber Dingy", moved north to Dog Lake. Pleasant quarters were secured at the Dog Lake Resort and work proceeded at full speed on the East Bay.

After a month on the water, it was time for me to move again. What better place than the Alps to provide variations in elevation? It was rewarding to observe on a grand scale some of the geological structures of this relatively young mountain belt. It was especially exciting to realize that I had been working in the Archean terrains in which the remnants of very similar structures also occurred.

The several glaciers which had to be traversed provided a fitting conclusion to my field season which had begun and was now ending with- SNOW.



Dr. M.W. Bartley, M.Sc., Ph.D.

Background;
Lecturer, University of Toronto 1938-40
Iron Ore Exploration since 1938
Steep Rock Iron Mines development 1940-48
Principal, Lakehead Technical Institute
1948-52
Honorary Professor, Lakehead University
1971-present
President of The Canadian Institute of
Mining and Metallurgy 1976

My primary interest is economic geology which embraces many sub-disciplines including exploration, evaluation, development, and utilization as applied to mineral deposits. This entails not only a knowledge of basic geology and mineralogy but also an appreciation of the fundamentals of mining engineering, metallurgy, economics, and management.

In the rapidly changing world of science and technology, specialization is increasing, unfortunately, to the point where the traditional economic geologists are fast becoming an endangered species. This is regrettable but the trend can be reversed.

The reversal can be accomplished by informal research consisting of planned reading of journals in which case histories and techniques are described, by attendance at meetings of earth scientists with similar interests, and plain old "bull sessions" with one's peers. If I am permitted to extend only one piece of advice to budding economic geologists, it is to read, listen and ask questions.

I strongly recommend that all prospective geologists become members of and take active part in professional associations. It is through these affiliations you can more easily broaden your education, gain professional stature, and enhance lasting personal satisfaction.

My involvement in the mineral industry as an employee, as a consultant, and to a limited degree as an academic, has been pleasant and rewarding. A highlight was the realization that my education has never stopped.

I wish you success, satisfaction, and many years of productive life after graduation.



Dr. Roger H. Mitchell, B.Sc., M.Sc., Ph.D.

Background;

Lecturer in Isotope Geochemistry, University of Oslo, Norway 1971-72

Assistant Professor, Lakehead University 1972-76

Associate Professor, Lakehead University 1976-present

Since the publication of the last Geology Journal, I have been on sabbatical leave in Australia and reflecting on the fact that being a geologist presents one with unrivalled opportunities for travel and the possibility of visiting places the casual tourist would never stumble upon - places such as the Spinifex Inn Disco in the Western Desert, the Orroroo Railway Hotel or Noonkanbah Tank No.5. Visiting such "places" enables one to obtain a feeling for a country which is not available to the short-term visitor. Consequently, those of you who have doubts about your chosen profession, whilst learning the ontogeny of graptolites or standing amidst the black flies on a swampy greenstone belt, remember that being a geologist will enable you to combine travel with a stimulating occupation if you take advantage of the many employment options open to you.

Whilst in Australia, I found that the public generally respected geologists and were aware of the nature of their work, presumably as a consequence of many of the towns having their origins as exploration bases or mine sites. Life for the geologist in the field is, compared to Canada, relatively pleasant; a warm (to very hot) and dry climate (unless you are in the monsoon areas), plus the ability to drive almost anywhere - no muskeg, few trees, no portages, no second-growth!

The bulk of my sabbatical leave was spent irradiating myself at the University of Melbourne where I obtained new insights into the geochemistry of gold, iridium and palladium in garnet lherzolites. I also saw numerous recent volcanic rocks, studied the art of chronomancy (or fission track geochronology), and gained some familiarity with Australian painting.

Ed. note: Dr. Mitchell was made a Professor in February of 1980.



Dr. R. Garth Platt, B.Sc., Ph.D.

Background;

Visiting Professor, University of Copenhagen,
Denmark 1969-70

NRC Postdoctoral Fellow, University of
Western Ontario 1970-71

N.E.R.C. Research Fellow and Staff Member,
University of Edinburgh, Scotland 1971-74

Assistant Professor, Lakehead University 1974-78

Associate Professor, Lakehead University 1978-present

So it is now two years since my last contribution to the Geology Journal. If I recall, the last communication ended with the safe completion of a nephelinite, basanite, phonolite hunt to Bathurst Island, N.W.T. Subsequent work has shown that the hunt was a success. The bonus of discovering the first occurrence of olivine melilitite in Canada merely added icing to the cake. These continental rift valley volcanics are presently the object of geochemical, petrological and mineralogical studies. The first results will be discussed at a field workshop on volcanism in rift and intraplate environments in July 1979 during a field trip concerned with the alkaline vulcanism associated with Cenozoic stretching in Western Europe.

The main research thrust has continued to be the Coldwell Alkaline Complex, a location dear to the heart of many a Geology major from Lakehead. What greater delight is there than the Pic Disco, the Everest Hotel, the Red Dog dining-room, Red Sucker Cove and Ministry girls from Neys Provincial Park? Recent work has centered on the Nepheline Syenites and the numerous dikes intersecting the intrusion. Currently M. McGill and B. Jago are completing a detailed study of the Southwestern margin of the intrusion for their honours theses. This large alkaline complex will continue to be the source of many challenging theses in the years to come.

Evidence is slowly emerging on the presence of past carbonate-rich magmatic activity just to the west of the Coldwell Complex. The McKellar Harbour region is the locus of numerous CO₂-rich, K₂O-rich ultrabasic lamprophyres which could easily be mistaken for kimberlites (Diamonds!) but which are most likely related to carbonatites. These dikes contain varying proportions of olivine, phlogopite, calcite, apatite, spinel, perovskite and melilitite and one contains significant amounts of a very rare Zr-rich, Ti-rich andraditic garnet. As of now only four localities in the world are known for this mineral. These dikes are believed to be associated with the activity responsible for the formation of the Prairie Lake Carbonatite lying some 35 kilometres to the north of McKellar Harbour.

So much for now, so until the next time, to all geology majors, good luck and may the spirit of igneous petrology be with you.



Dr. Stephen A. Kissin, B.Sc., M.S., Ph.D.

Background;

Postdoctoral Fellow, McMaster University 1973
N.R.C. Postdoctoral Fellow, CANMET, Department
of Energy, Mines and Resources, Ottawa 1974-75
Assistant Professor, Lakehead University 1975-79
Associate Professor, Lakehead University 1979-present

My research activities over the past year and summer, in particular, have been varied and quite interesting. I placed my work on tin-bearing sulphides on the back burner for a while, having reached several impasses on that subject. My efforts since then have been concentrated on some new projects.

After completion of my work pertaining to spring term and field school in 1979, I spent a few weeks readying a paper for publication. This was followed by the frantic preparation of an abstract for the Meteoritical Society meeting which was held later in the summer. My next project was a jaunt into the field with M. Lucko to examine pegmatites in and around the Quetico Belt along Highway 527. We observed numerous pegmatites, one moose, and experienced the coldest June weather to my recollection. There were, however, essentially no bugs!

In early July, I took my wife and two small children to the Los Angeles area. I did nothing geological except to attempt to find the San Andreas Fault as we flew over it. I returned home impoverished and in need of another holiday. Unfortunately this was not forthcoming, and I found myself readying my paper for the Meteoritical Society. In doing so I happened to learn that Dr. Borradaile was editing a book. I volunteered a contribution on shock structures in iron meteorites. My meteorite work dealt with the sulphide mineralogy in one of the chemical groups of iron meteorites and the various implications one could make from such studies. Although much of my data had been collected some time ago, I found some gaps which necessitated a one week visit to the University of Toronto to use their electron microprobe.

As a guest of the University I was allowed to stay in the Medieval splendour of Hart House, where my room was furnished with antique French Canadian furniture complete with original paintings by Sir Frederick Banting. My probing work went quite well and for once, I was able to do some additional work on silver-mercury minerals from the Stanley area west of Thunder Bay and, on indium-bearing sulphides from New Brunswick.

Upon my return to Thunder Bay a few weeks were spent preparing my paper on iron meteorites and, in the last week of August, I left for Germany where the Meteoritical Society was meeting. I spent a week on my own in Southwestern Germany and a week in Heidelberg attending the meeting. My presentation was well received, and I was satisfied that the trip had been worthwhile from the standpoints of both business and pleasure. I returned to Thunder Bay thirty-six hours before the start of classes.



Dr. Roy J. Shegelski, H.B.Sc., M.S., Ph.D.

Background;

University of Toronto 1973-77

Lecturer at Lakehead University 1976-78

Assistant Professor, Lakehead University 1978-present

I am pleased that the Geology Club is continuing the yearbook and wish them the best of luck in their endeavours.

I have been investigating strata in Northwestern Ontario for the past summer and have experienced both success and failure. The field conditions around Thunder Bay are pleasant; pollution keeps the fly population down, tourist-ridden parks provide well worn pathways to outcrops, and the beautiful scenery along the Current River is enhanced by bikini-clad beauties which proved to be a major distraction to section measuring by assistant B. Cheadle and myself. What was that thickness now? The field season ended with a bang some 40 miles east of Pickle Lake on Lake St. Joseph as B. Berger and myself surfed over a submarine drumlin and lost propulsion in our motor. Air rescue came three days later aided by a "Sportsman's Survival Flare". Undaunted by this misadventure, research sampling and field trips continued. The message which I have based on this summer's experience is that field geology is always a mixture of hardship and triumph, but the necessary element which makes it feasible is perseverance.



Dr. Graham Borradaile, B.Sc., Ph.D.

Background;

Senior Demonstrator in Geology, Durham University, U.K. 1970-73

Assistant Professor in Geology, University of Amsterdam 1973-78

Assistant Professor, Lakehead University 1978-present

Ed. note: Dr. Borradaile was made an Associate Professor in February of 1980.

My family and I came to Thunder Bay for the beginning of the school year in 1978, after having lived and worked in Amsterdam for the previous five years.

We have now settled in the bush just outside of town and, according to the time of year, we greatly enjoy chopping wood, skiing, attempting to canoe and digging snow.

After a hectic first year translating and paraphrasing my Dutch teaching notes (which hopefully helped the class!), I was able to enjoy my first Canadian summer. Together with Dr. Kehlenbeck I collected data on metamorphism from the shores of Dog Lake (excellent for surfing but awful for boatlanding), and I have also been researching into "fault rocks" (mylonites, pseudotachylite, cataclasite, ...etc). The fault rocks occur in several belts, each perhaps a kilometre wide and hundreds of kilometres long, in the shield of N.W. Ontario. The most spectacular example, the Quetico "fault", just north of the city has been the focus of my attention. I have pursued other more theoretical research, partly using recently acquired data, concerning changes in temperature distribution with time in metamorphic belts and grain-boundary sliding in metamorphic rocks.

I much enjoyed working with Howard Poulsen and Myra Kennedy on their respective metamorphic/structural research topics last summer. I also greatly profited from their help in sampling, looking at the local geology and in thinking about geology in general.

I hope that those of you who will be graduating and leaving LU this session will carry equally pleasant memories of 1978-79 and that you never forget all your sunny, blue-skied student days at Lakehead.



K.H. (Howard) Poulsen, B.Sc. (Physics)
B.Sc. (Geology)

Background;
Exploration Geophysics 1961-71
High School Teacher 1968-69
Research Assistant for J.M. Franklin 1972-75
Senior Technician and Faculty Assistant,
Lakehead University 1975-present

In addition to my full-time duties as departmental hockey convener and as Hoots' official interpreter, part of the past year has been spent maintaining and supervising the geochemistry laboratory. The initiation of the graduate program has seen a renewed demand for geochemical analyses performed both by myself and graduate students. Our whole rock and trace element analytical programme, while centered in our own laboratory, relies heavily on apparatus housed in the Science Instrumentation Laboratory which is maintained by Dr. T. Griffith and his staff. Our students are very fortunate to gain hands-on experience in this facility on equipment that actually works!

Aside from the above departmental responsibilities, the past year has been occupied with my continuing research interest, the Precambrian geology of the Rainy Lake region. Of particular interest to me was a workshop on the geology of the International Boundary held at Fort Frances in May 1979. Valuable discussions were held with officers of the Geological Survey of Canada, the U.S. Geological Survey, the Ontario Geological Survey, the Minnesota Department of Natural Resources and university representatives. Seminar presentations were followed by visitation to numerous outcrops. It might be pointed out that the most memorable exposures were seen at an establishment known as "Nick's Zoo" where the role of fluids in geology was heartily discussed. Unfortunately I failed to record the attitudes of minor structures in my notebook so that stereographic representation of the results is not possible.



Ronald Bennett

Ron is the "guiding light", the "shepherd" if you will, within our geology department. For friendly advice or a good ol' Scottish yarn, Ron's the man to see!

He was the Chief Laboratory Technician at the Grant Institute of Geology, University of Edinburgh, Scotland from 1936 to 1967. In 1967 he joined the Geology Department staff at Lakehead and, as our principal technician, he does specialized work related to faculty research projects.

Outside of the university Ron is an active participant in Kaministiquia community functions. He is an avid fisherman and carpenter, and enjoys putting his homebuilt sauna to good use.

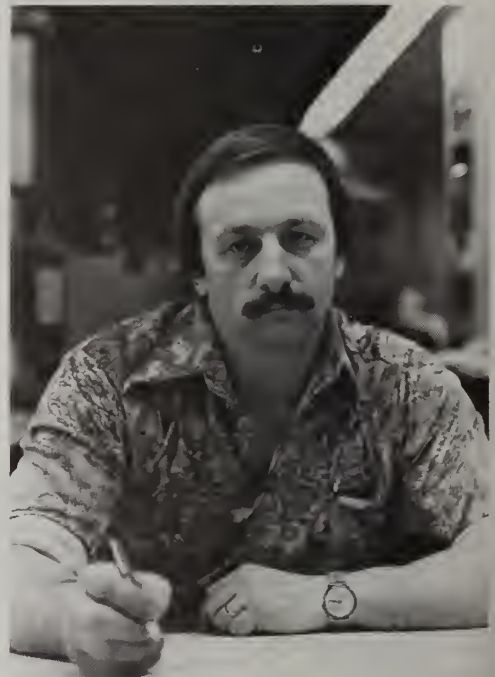
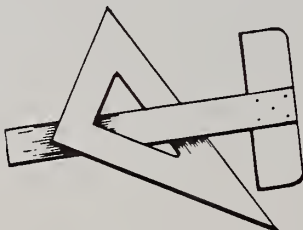


Sam Spivak - Chief Draftsman
Principal Technician
Map Librarian

The majority of my working hours (in this second decade as an employee of this fine establishment) are spent preparing maps, diagrams, teaching aids and special displays as well as a substantial number of illustrations for research publications. A fair amount of time is spent in the maintaining of and cataloguing of new acquisitions to our map library.

A regional seminar on "cartographic techniques" was held at Sir Sanford Fleming College early in 1979. I was fortunate to have attended this seminar for the purpose of acquainting myself with some of the new ideas for, and methods of, map production.

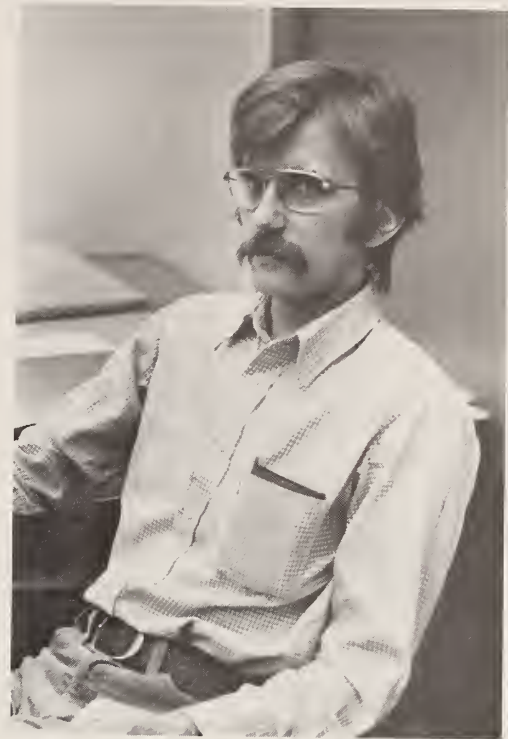
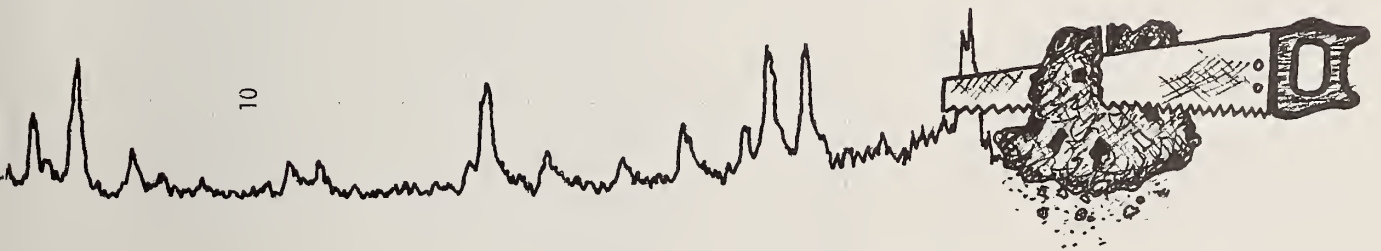
My extra curricular activities within the university include organizing and participating in the annual student-faculty-staff hockey games as well as being an active participant on the squash courts.



Ain Raitsakas

Ain was born in England, but was fortunate enough to have emigrated to Canada at an early enough age to avoid the obviously deleterious effects of such a birthright. He was educated at the University of Waterloo and at Lakehead University.

Since 1973 Ain has been associated with the Geology Department through his work with the federally supported Seismographic Station at Lakehead, lending a prestige and sophistication to the department that is uncommon in such an earthbound discipline.



Bill McIlwaine

Bill was born in Toronto and received his early education there. His high school and university educations were obtained in England and at the University of New Brunswick respectively. After spending fifteen years working in the bush, ten of them as a field geologist with the Ontario Government, he decided that more of his time should be spent at home.

With this in mind, Bill joined the Geology Department staff at Lakehead in 1978. As a lab technician much of his time is spent at the grind in the geology lab in the basement of the Centennial Building. It is here that all of the departmental thin sections for teaching and research are prepared.



THE DEAN:

- leaps tall buildings in a single bound
- is more powerful than a locomotive
- is faster than a speeding bullet
- walks on water
- gives policy to God

THE DEPARTMENT CHAIRMAN:

- leaps short buildings in a single bound
- is more powerful than a switch engine
- is just as fast as a speeding bullet
- walks on water if the sea is calm
- talks with God

PROFESSOR:

- leaps short buildings with a running start and favourable winds
- is almost as powerful as a switch engine
- is faster than a speeding BB
- walks on water in an indoor swimming pool
- talks with God if special request is approved

ASSOCIATE PROFESSOR:

- barely clears a quonset hut
- loses a tug-of-war with a locomotive
- can fire a speeding bullet
- swims well
- is occasionally addressed by God

ASSISTANT PROFESSOR:

- makes high marks on walls when trying to leap buildings
- is run over by locomotives
- can handle gun without inflicting self-injury
- treads water
- talks to animals

INSTRUCTOR

- climbs the walls continually
- rides the rails
- plays Russian Roulette
- walks on thin ice
- prays a lot

GRADUATE STUDENT:

- runs into tall buildings
- recognizes locomotives two out of three times
- is not issued ammunition
- can stay afloat with a life jacket
- talks to walls

UNDERGRADUATE STUDENT:

- falls over doorstep when trying to enter buildings
- says "Look at the choo-choo"
- wets self with a water pistol
- plays in mud puddles
- mumbles to self

DEPARTMENT SECRETARY:

- lifts tall buildings and walks under them
- kicks locomotives off the track
- catches speeding bullets in teeth and eats them
- freezes water with a single glance
- IS GOD



Wendy Bons

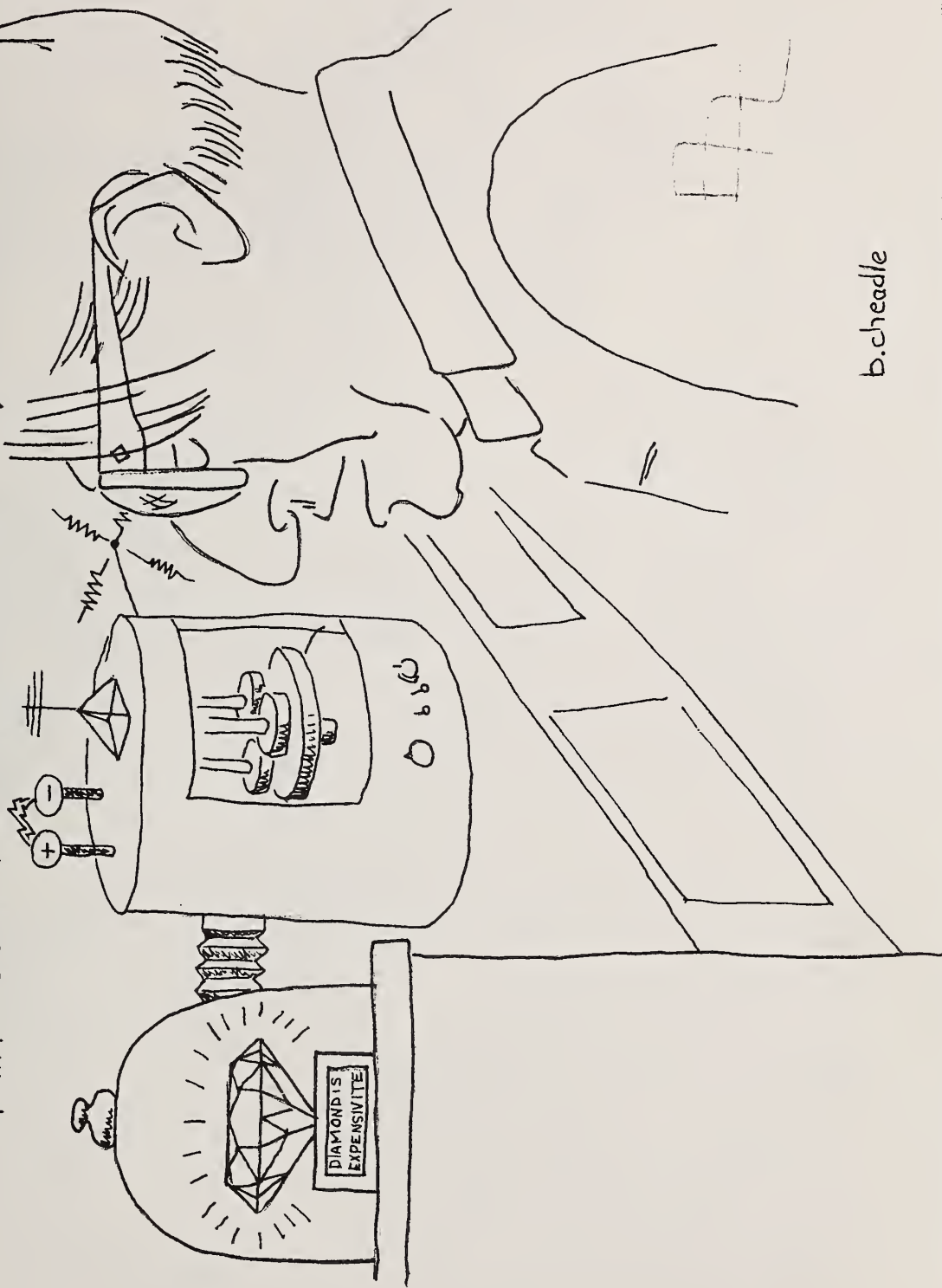
Wendy is originally from the Toronto area where she received her high school and college education. She has spent the past five years in Thunder Bay, the last two and a half years spent in the Geology Department as Departmental Secretary. Duties in the department include such things as typing, filing, handling of incoming and outgoing calls, departmental budget documentation, documentation of faculty N.R.C. grants, and generally keeping things in line.



Judy Vogrig

Judy is from the Thunder Bay area and has had the pleasure of working for Dr. Mothersill for the past year and a half. Her job is to try and keep a busy office running as smoothly as possible so that the Dean can accommodate all the important and pressing items that confront him both administratively and academically.

“ - and now, my greatest
thin section of all time - ”



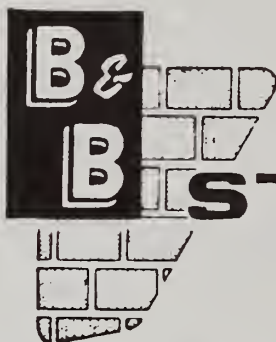
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Graduates





Ben Berger

I graduated with an H.B.Sc. Geology degree from McMaster University in 1975. Between 1975 and 1978 I worked for Noranda Exploration and was based out of their Thunder Bay office. I spent the summers of 1978-79 working for Selco Mining Corporation in the Thunder Bay area, Ontario and the Kamloops area, B.C. respectively. My employment with Selco and Noranda has provided me with mapping, geochemistry, and geophysics experience in both base metals and uranium exploration.

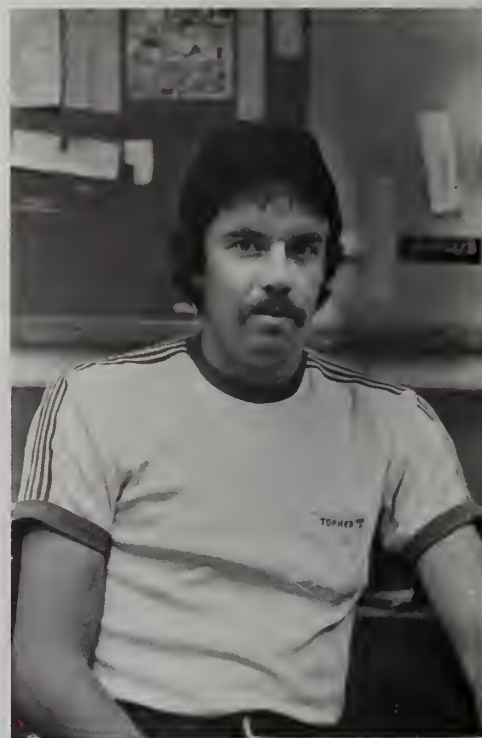
In 1978 I enrolled in the M.Sc. program at Lakehead University. My thesis work involves the compilation of volcanic and sedimentary stratigraphy in the Lake St. Joseph area of Northwestern Ontario.

My second year of studies at Lakehead has been enlightened by the fun and games to be had with the third year class while trying to teach them ore petrology and the finer points of "Crest-manship".

John Mason

I graduated from Lakehead University in 1975. For the last five years I have been employed with the Ontario Geological Survey (formerly the Ontario Division of Mines), Ministry of Natural Resources, Thunder Bay as Geologist Assistant and presently as Resource Geologist. The Thunder Bay office of OGS is responsible for an area from White River in the east to Atikokan in the west and north to the 54th parallel.

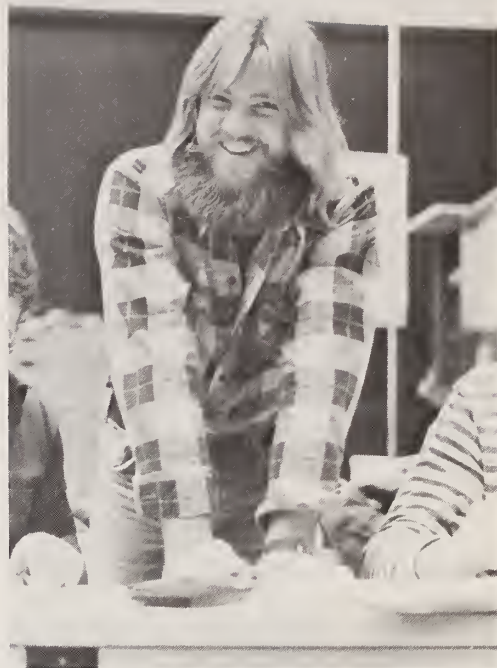
My M.Sc. thesis concerns the Archean stratigraphy of the Kaministiquia Area west of Thunder Bay. Precambrian stratigraphy and economic geology are my main fields of interest.



Scott Cheadle

I completed my H.B.Sc. in Geology at Lakehead University following two years in the Department of Geophysics and Astronomy at U.B.C. My summer work experience has included mapping with Dr. Kehlenbeck, a short term as the seismic technician under Dr. Mothersill, and two summers as a general research assistant to Dr. Mitchell and Dr. Platt. The topic of my H.B.Sc. thesis was a magnetic mapping and modelling of the Barnum Lake Pluton, and it was completed under the supervision of Dr. Kehlenbeck.

As part of the M.Sc. program, my work in the Barnum Lake area is continuing to include a broader magnetic and gravimetric survey of the area and a more detailed modelling attempt at the three dimensional configuration of the structures present. My principal interests in geology are crustal evolution and Archean Tectonics. Outside of geology, my interests include skiing, hiking, cameras, certain fretted instruments, the Rockies and Export Ale during numerous evenings in front of televised football.



Doug Lehto

In leafing through past editions of the Geology Journal, I notice that it provides most people with an opportunity to summarize their most recent activities in geology. Since my summer activities in 1979 can be summed up in terms of building a "home" in Thunder Bay, I will begin my geologically related tale from the time of my graduation from Lakehead University.

After graduating in the spring of 1975, I joined the staff of the Geology Division, Saskatchewan Research Council, Saskatoon, and worked with them until April of 1979. I consider myself fortunate to have arrived in Saskatchewan at the "dawn" of the latest rush in uranium exploration. During the summer of 1975 I became involved in a geochemical study at the Duddridge Lake uranium discovery. It certainly was a new experience for me having previously worked in base metal exploration in Ontario and having left Lakehead with a thesis on structural geology fresh in my mind. How quickly one adapts! I later became involved in other multi-media geochemical projects and, it was during this period that my interests were directed towards lake sediment geochemistry.

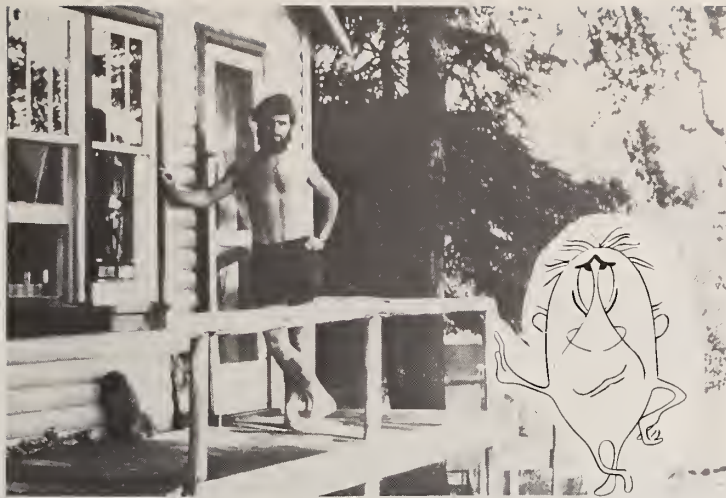
And so I find myself back at Lakehead as a graduate student doing research in lake sediment geochemistry. My current research involves an investigation of uranium partitioning in recent lake, stream, and bog sediments from Northern Saskatchewan.





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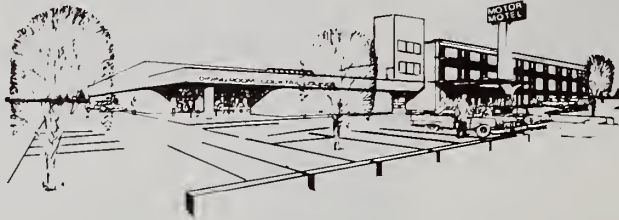
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Graduands

Geology IV



Grinning
and
Bearing it!

Heather Brown

Heather has the distinction of being Geology IV's only single female. The question of her availability, however, will have to be taken up with John. She is a diligent worker, but always has time for a smile for everyone.

Heather enjoys outdoor activities, especially snowshoeing, cross-country skiing, and geophysics!?! Swimming and reading are other favourite pastimes. Heather's organizational skills were evident from the excellent socials she planned as social coordinator for the Geology Club for 3 years.

Heather has gained much valuable experience through summer employment. After her first year in geology, Heather tackled the major companies and worked for Noranda in North-western Ontario. Her next summer was spent in another area of Northwestern Ontario working for Shell. After third year, Heather accepted a position with Shell in SE Nova Scotia near Yarmouth. This summer she will be back in NW Ontario working for AMAX. And then.....who knows???

Thesis Topic: Paleomagnetic Study of the Quaternary Sediments of the Goderich Basin, Lake Huron.

The natural remnant magnetism of the lake bottom sediments of the Goderich Basin, was used as a correlation factor between two cores retrieved from there. The paleo-declination and paleo-inclination values obtained from the sediments were plotted versus depth. Correlateable peaks represent sediments of a comparable age. This method of correlation was found to apply to sediments of a small basinal area as well as to the Great Lakes area.



Randy Farmer

I'm one of the 'fortunate' few doing a structural thesis. At least, everyone tells me I'm doing a structural thesis. Basically, I'm looking at a small lense of sediments about five miles north of Thunder Bay. The general purpose of the study is to determine from structural and textural evidence, the relationship of the sediments to the surrounding rocks and their nature of deformation.

I've spent two summers in the bush; The first one in 1978 with Falconbridge Copper and the other in 1979 with Selco Mining. With Falconbridge I worked in the Savant - Sturgeon Lake area. Basically, we just lazed around on the beach, and participated in the weekly Ignace to Sturgeon Lake time - trials (for which I clocked the fastest time of 38 minutes), and went fishing. Once in awhile we got bored, and looked at some rocks. My second summer with Selco was spent in northern Manitoba mapping in gneissic terrain for base metals.

My future interests after graduating are to work the summer, then take the winter off and do some travelling. Then, I think I'll be ready to try and find permanent employment in geology.

Tim Howson

Now that my four years at Lakehead are finished, I can proceed with my real interests. I am presently negotiating for a job as a taste tester with a large rum distillery in the Barbados. During the off season I plan to work as a test driver for Yamaha Motorcycles Incorporated and as a fishing guide in Northern Ontario.

My future geological interests lie in finding the famed diamond deposit of Northern Canada, which must be at the bottom of Hudson Bay. Secondly, I would like to stake and develop a small placer gold operation and rum distillery on the Yukon River.

However, after several summers of uranium work, I am proceeding into real geology (so I am told). I have signed as a base metal geologist with Falconbridge Nickel. The job involves mapping volcanics near Snow Lake Manitoba.

Past work experience:

- Summer 1977 - Mapping as a Junior Assistant with O.G.S. near Sault Ste. Marie
- Summer 1978 - Mapping and prospecting with Eldorado Nuclear Ltd., near Uranium City, Sask.
- Summer 1979 - Mapping with O.G.S. in the Grenville Province near Bancroft

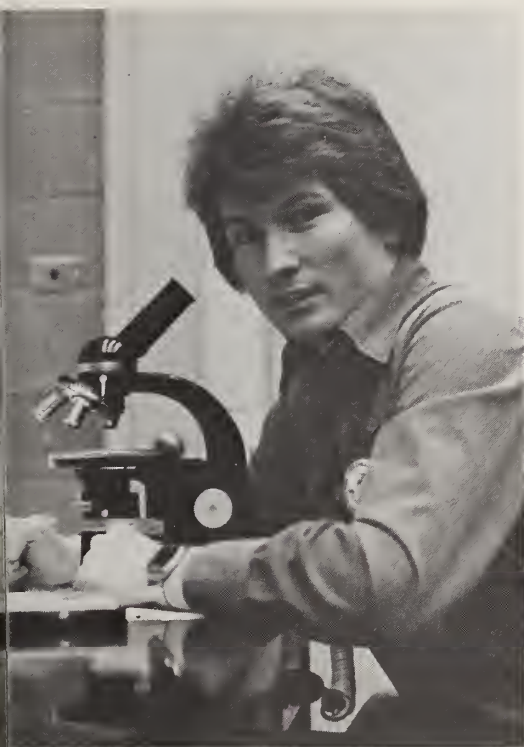


Bruce Jago

Hi there, I'm one of the lucky few who is working on the Coldwell Alkaline Complex for a thesis this year. By-the-way, the word 'Complex' is not misleading, not at all!! Long ago and far away, when Lake Superior tried to become an ocean, the Coldwell Complex was born. A deep seated mantle rock began to melt and caused the formation of three related alkali rich and silica deficient magmas to rise and form a roughly circular intrusive complex. Associated with each phase was brecciation of pre-existing rocks, the formation of complex pegmatites & possibly large scale faulting. Indeed, before erosion lasting for a billion years removed the land surface, a volcanic edifice was probably present. My thesis concerns the description of the main rock units and their intrusive relationships at the western contact. Lots of fun you ask?, you bet!

My summer experience in geology includes working for Noranda in 1977, and Shell in 1978 and 1979. Each season I was beating it around the bush looking for copper and zinc in volcanic terrains. Saw lots of wildlife, had a good time, but broke alot of hearts. You see I met the cutest little moose and.... But seriously, the best camps have women in them. All oink oink aside girls, it's more like home with panty hose hanging on the jackpines.

My interests in geology lie in gold, silver, diamonds, strange igneous rocks and making money on the stockmarket. My interests outside of geology include making my own hooch, economics, the great outdoors, sports, women and antiques.



Myra Kennedy

As one of the few females in geology at Lakehead, Myra is just like one of the boys. (Not even strip joints or advertisements that come in plain brown envelopes ever produce the expected traditional blush.)

A very hard worker, Myra can always be depended on to come to our rescue with the right answers for labs that are due immediately. She enjoys cross-country skiing (as long as the wineskin is within easy reach) and playing squash. Various aspects concerning food are also of great interest to her, and she can really bake up a storm for those Christmas socials!

Myra was employed by the government for two summers, first on a local Experience '77 program associated with the Regional Geologist's Office, looking at scenic features of geological interest in the area. The second summer she worked as a junior field assistant in an ODM field party near Sioux Lookout. After that, more cushy jobs became available, and she spent the summer after third year as a research assistant for Dr. Borradaile. This summer, employment with Dr. Borradaile is again a possibility as well as work on her master's thesis.

Myra's honours thesis is a study of structure and metamorphism across the Quetico belt from Shabaqua to Raith, Ontario. The study is essentially a traverse (about 30 km in length) along highway 17 and the CNR and CPR railway lines. A sociological study accompanies the thesis on the effects of repeated blasts from transport truck horns while one is clinging to the sides of large road outcrops - echo, echo!!!

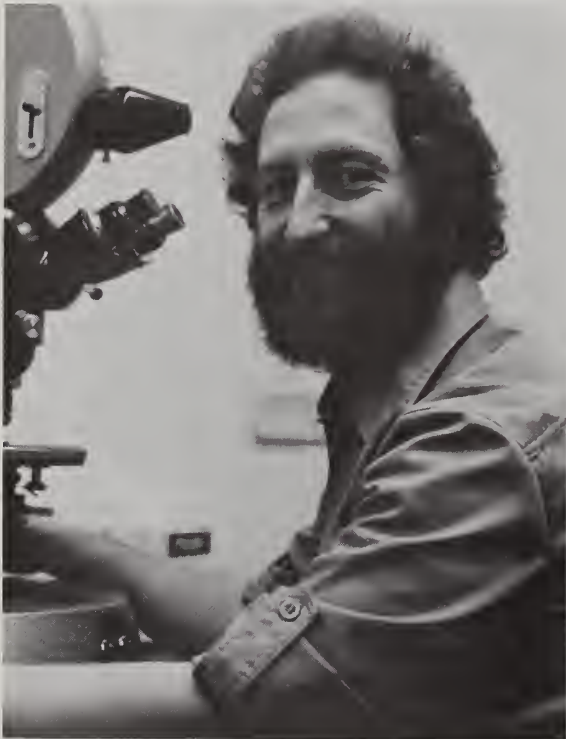


W. Michael Lucko

Mike is a busy and hard working guy. Not only is he subjected to the normal rigors of Geology IV, but he is kept on the go by his wife Edna, and sons Eric, Randy, and Adam (arriving during years I, II, and III respectively of Mike's years at L.U.) This year Mike and Edna seem to have broken their record. The three boys (otherwise known as the terrors of Dacre Street) are of great help to their father in collecting rock samples. (They think the "pigs" are really neat.)

Mike has worked for the past few summers on the notorious "Black Gang" at Northern Wood Preservers in Thunder Bay, thus managing to be with his family. Mike and family are now off to Mayo, Yukon Territory, where he will work as a mine geologist.

Mike's thesis examines the pegmatites ("pigs"), of the Quetico Belt along Hwy. 527. His study involves petrographic description and appraisal of the uranium potential of these pegmatites.



Murray McGill

Murray is a member of the famous High Street can you pass the pinch test? society. He can often be seen around the geology department sleeping, &/or slumped in his chair during lectures. (Or better still, telling Ron what a nice new shirt he is wearing.) His favourite pastimes are being late for geochem., geophysics or hysterical geology by at least 5 minutes, and pointing out to Parker Jack how ugly his thesis rocks look.

Actually, his real interests in life include becoming an insurance salesman and doing fabric and strain analysis on unpeeled banana peels.

Away from L.U. Murray is interested in motorcycles and photography. And yes, now and then he glances at a rock or two. "Rocks ain't no good 'less they got silver or moly in 'em" is his motto. If asked about the future, he replies that he eventually would like to investigate some gelatinous orbs in Europe and become a qualified motorcycle mechanic.

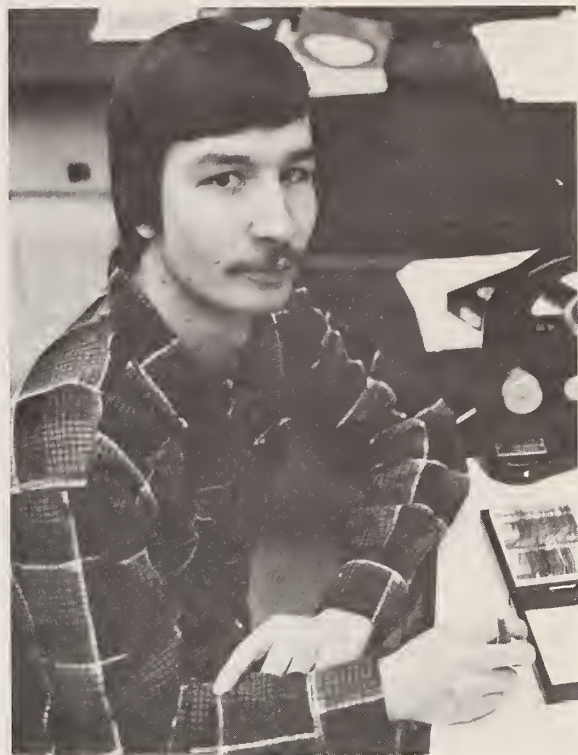
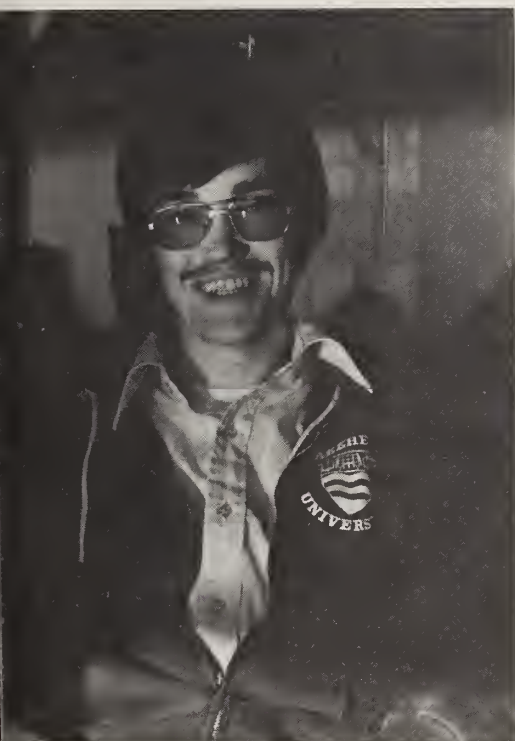
Murray's thesis is a petrologic documentation of the major rock units at the western margin of the Coldwell Complex, near Marathon, Ontario. Hopefully, this thesis, when compiled with works by A.A. and B.J., will help outline the complex geology of the western contact region.

Work Experience:

Geophysics and junior mapper with Denison Mines, (N.W.T.) Summer 1977.

Geophysics and Junior mapper with Shell Canada Resources, (B.C.) Summer 1978.

Mine Development work and Senior mapper, with Kaiser Resources (B.C.) Summer 1979



Bill Palmer

In the beginning, geology was an interest of mine which spanned both my public school and high school years. I started collecting rocks, minerals, and fossils when I was four. I found geology to be challenging in university, especially second and third year.

My summer experience includes uranium exploration in the Nipigon area, and gold exploration by geochemical rock and soil sampling in the Timmins district. Falconbridge Nickel was my employer for both jobs. Hudson's Bay Oil and Gas Company employed me in Northern Ontario and Newfoundland in the summer of '79 as a junior involved in geophysical surveys, soil sampling, line cutting and stream sampling.

Besides learning about various aspects of geology during the last three summers, other valuable lessons were learned. For instance, repeating the same type of survey can often lead to boredom, but with enough patience and perseverance, one can overcome this. The results are satisfying to say the least.

My interests outside of geology include fishing, sailing, motorcycling and badminton. Future endeavours will include being a geologist and raising a family.

Jack Parker

Jack is one of the more charming and intelligent young geologists of his class, and is often mistaken for Robert Redford. He usually manages to squeeze in time to do school-work in his very rigorous partying schedule. He likes to arrive fashionably late to most of his lectures; that's if he arrives at all. However, you can often find him huddled over his thesis rocks with Led Zeppelin blaring out of a tape deck, or sprawled out at an L.U. dance beating his brains with drugs.

If you ever want to contact this aspiring young man, his name and phone number can be found scrawled on the walls of most of the men's washrooms at L.U.

His motto: Tomorrow I'll get my shit together.

Jack has been employed by O.G.S., New Jersey Zinc Exploration, and Urangesellschaft for the last three summers, and will spend his fourth with Esso in the N.W.T.

Jack's thesis topic is a detailed study of a meta-sedimentary unit at Finmark. The objective of his research is to determine the environment of deposition of the sediments, and to explain the structure of the area.



John Scollie

One of the quietest guys in fourth year, John is a native of Thunder Bay, and still lives within a block of where he was born. Although part Italian, he doesn't go in for disco dancing, dressing up, or dingle balls. He does enjoy photography, watching movies, playing golf, and relaxing. One of his favourite sayings is, "It's too much work".

Most of his summers have been spent painting cars, and if you ask him nicely, he may demonstrate to you his prowess with masking tape and a razor blade. Last summer though, John got a taste of the good life, as an employee of the university under Dr. Mothersill. Word has it that he drank alot of coffee, played with alot of mud, cruised the tropical shores of Lake Huron for a month, and still got paid.

Aside from finding a gold mine (or even a Titanium mine) John's goals for the future include, one day, becoming as good a photographer as his idol Ansel Adams. A great thinker, John's philosophical outlook can be summed up in a quote from Roseanne Roseannadanna: "It just goes to show you Jane, it's always something. If it's not one thing, it's another."

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3rd Year Geology



Helene Bourdages

Scott Bruce

Eric Albrechtsons

Robert Bennett

Burns Cheadle

Warren Clendining



John Etches

Terry Foster

Larry Kovac

Bill Love

Paul Gertzbein

Rick Kemp

John Pearson

Nicholas Spence

Eugene Kent

Blair Kite

Mark Stevens

Ron Tweedie





Eric Alfreds Albrechtsons

...but, most folks 'round here know me as Ralph. Certified resident and president of Nugent St., and member of Paleontology Club. Activities include gourmet cooking, speaking Latvian (great way to meet girls!), patronizing studio 2019, and generally striving to preserve a calm mind.

Work experience - Summer 1979: Urangesellschaft Canada Ltd., diamond drilling - uranium ex., Baker Lake area, NWT Summer 1978: Hudson's Bay Oil and Gas Co. Ltd., base metals exploration, Newfoundland.

Robert Bennett

My past work experience includes one summer as a "monkey operator" up 'dere in Nor-dern Québec (base metals exploration) and one summer chasing hot (warm) boulders in Northern Saskatchewan. Of academic interest to me are structural and economic geology, while philately, cooking, and attempts to furnish my apartment have provided welcome distractions from the rigours of life as an L.U. "rock doc".



Hélène Bourdages

My interests in geology are in exploration and mapping. Last summer I had the opportunity to work underground for Denison Mines in Elliot Lake as a geologist's assistant, and enjoyed it very much. Next summer I'll be in Kirkland Lake with Newmont Exploration. My extra curricular interests include partying and sports.



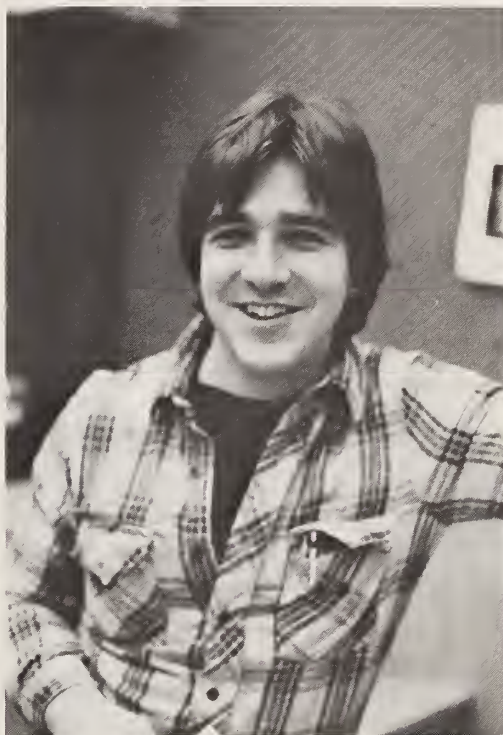
Scott Bruce

Scott was the "Phantom" of the third year class. (Field school must have been tough, eh Scotty?) His field experience includes two summers of geological mapping in the Timmins area (in the good ol' Abitibi greenstone belt).

Burns Cheadle

My main interests are maximizing leisure time, and taking two years to write up a half hour thesis on the stratigraphy of the Rossport Formation, for Roy Shegelski. In my many hours I occupy trying to avoid the microscopes, I write music for guitar, cross-country ski and play "cat and mouse" with my wife, Sherri.

I worked as the camp slave for O.G.S. in the summer of '78 and as a chauffer and aide-de-camp for Roy Shegelski in the 1979 field season. This coming summer I'll be working for Mattagami Exploration as grizzly bait in the Northwest Yukon Territory.



Warren Clendining

Married to a fantastic lady, (who just so happens to be doing this typing), Warren's last few summers of work have involved assisting various professors in their research. This has encompassed such things as collecting mud for Dr. Mothersill, rowing Dr. Kehlenbeck around Hazelwood Lake, and guiding Howard through the wilds of Fort Frances (and surrounding bush). Geologically speaking, the things that interest him most are geophysical methods (yawn), and structural geology. Beyond this lies a strong interest in music - more precisely the trumpet - to which professor Kehlenbeck can attest (not detest) to the devotion.





John Etches

Two summers ago, with some reluctance, I began my life as a geologist working for W.G. Wahl Ltd., in NW Ontario (lugging rocks for a party chief named Betty). It was she that gave me my first insight into the geologist's world, while teaching me the ways of the bush. I met greater challenges last summer in the delineating and prospecting of radiometric anomalies for Amax in NE Saskatchewan. This years field season will be spent white water kayaking, big game fishing and mapping for BP Minerals along the Coppermine River, NWT.

Terry Foster

The summer before last, I chased women on the beach. This past summer, I chased caribou on the tundra. This summer, I'll be chasing women and anomalies around Wawa for the Algoma Ore Division. My ambition is to catch all of the above.

(But does he know what he'll do with them if he catches them? J.)



Paul 'Jethro' Gertzbein

The last two summers I've been working in the Arctic, looking for uranium. During the last two winters, I've been partying to make up for what I missed during the summer. I hope to be going back up to the NWT this summer to do some mapping for Gulf Minerals. I hope to make a career out of exploration geology and getting high.



Rick Kemp

- Ambitions: - finish his honours degree
 - an international job which requires his presence only when he feels like it

Rick will surely be the proud father of about 3 young geologists - 2 boys & a girl. His confident manner, careful and articulate speech, and easy laugh will get him a supervisory position with some tax evading corporate giant, drinking 20 dollar scotch whiskey. Best wishes Rick.
 Pet Peeve - Shopping with Larry.

Eugene Kent

Basically, I am a quiet unassuming individual. However, inspiration may come to any man! In my case I realized, that if God or evolution had meant for me to 'live' in the lab, then I would perforce have grown a universal stage, or perhaps a set of coloured pencils in lieu of fingers. In the absence of these physical accoutrements, I have resolved to become an exploration geologist - specializing in wine, women, and song.

Work experience - Summer 1977, Falconbridge Nickel, Northern Ontario (Junior). Summer 1978, Derry Michener and Booth, Wisconsin (Junior). Summer 1979, Norcen Energy, Uranium City, Sask. (Senior Mapper).



Blair Kite

Work Experience:

1978 Amoco Canada Ltd., as a monkey operator near Matagami, Quebec.

1979 Falconbridge Copper, as a Galley slave at Savant Lake and Schreiber, Ontario

At present: Vice president in charge of mining with Nugent St. Mining and Exploration

Special interests: Setting down by the fireplace with a rum toddy and a good ore petrology text on a long and dark winter evening. Other interests include alcohol absorbance and gourmet cooking.



Larry Kovac

Larry has aspirations of outdoing Alan Alda. All kidding aside (chicken dinner) Larry has a beautiful outlook on life - just ask Nick. For his life work, I don't know: he has a rare insight in life: sees himself and others as they really are. Larry may earn a living with some multinational corporation, but, life has something more rewarding in store for him.

Pet Peeve - Shopping with Rick.

P.S. I hope he makes more chocolate cake.

Bill Love

I spent my first summer risking sterility looking for uranium. My second summer was spent braving the jungles and taverns of Northern Quebec in the pursuit of the most noble of the metals - Gold. This coming field season will be spent working for the "feds" north of Yellowknife.

My principal interests are cross-country skiing, running and mineral collecting.



John Pearson

(Alias - The Canadian Gigolo)

On the weekends I'm found competing with "Mr. Bill" for the most time spent in "the lab" (that is not a disco folks), or just being myself and getting picked up in restaurants by cute? waitresses. (Are these potential future Mrs. Yucks?) During the week I am kept busy with my duties as Vice President of Exploration of Nugent St. Mining and Exploration and many luncheon meetings of the Paleontology Club. My past summers have both been in the uranium field. Summer 1978: Conwest Exploration, Junior Assistant, Northern Saskatchewan. Summer 1979: Senior Mapper, Urangesellschaft, Baker Lake area, NWT.



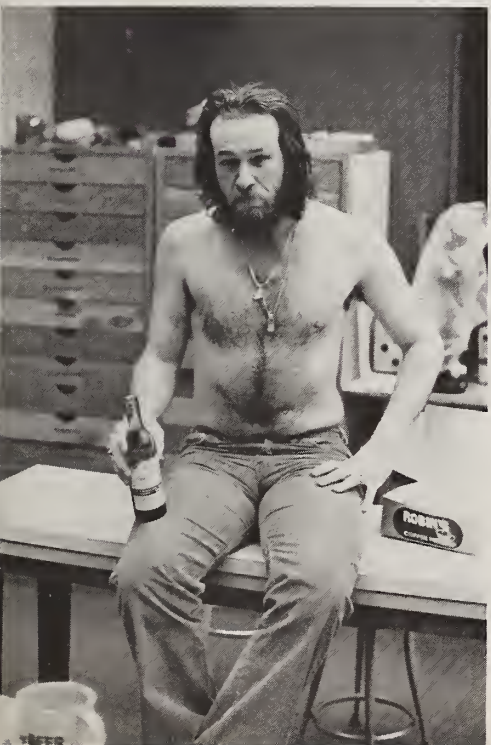
Nicholas Spence

My interests lie in the smutty side of geology, such as megalopoliths and the bucking and grinding of orogenic belts. However, sometimes I have my serious moments and drift off to the land of "Mega-Zircons". I have had the good fortune of spending a summer in the bush. It felt more like "Two Years Before The Mast". Flying, world affairs and suntanning on a yacht off the Great Barrier Reef of Australia all the while drinking Singapore Slings are amongst my other interests.

Mark Stevens

My first summer in geology was with Falconbridge Copper Ltd., working in the Savant Lake area just north of Thunder Bay, looking for base metals. The second summer was with Urangesellschaft Canada Ltd., searching for uranium in the Northwest Territories. For the coming field season, I will be working for Petrocan in Calgary and the N.W.T.

My main interests are girls, waterskiing, and motocrossing.



Ron Tweedie

I learn much while in attendance here; it's not always related to geology however.

The biggest thought in my head is to find a mate. Everything else will fall into place by itself. My ultimate calling is not geology, but this degree will help me.

Dozens of taxi passengers have received various lectures re. evolution of the nor' westers range et. al. They all seem amazed, and exit the cab enlightened and grateful (big tips) with smiles to face a different world. It's a credit to my lecturers one and all.



2nd Year



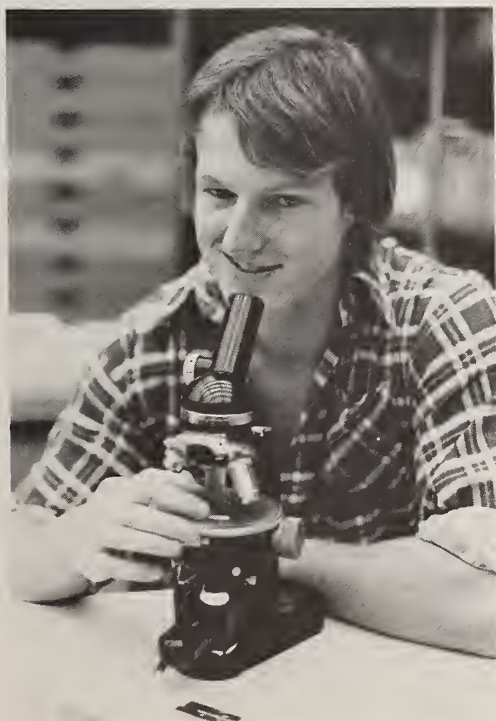
L. to R. - Lupen (ed. note - maybe we can get him to switch to geology), Ian Campbell, Brett Barnes, Eleanor Sidey, Tim Twomey, Cathy Butella (another potential geology major??), Rob Dubyk, George Chomacki, Keith Dailey. Absent: Mike Schulze.

Ian Campbell

Brett Barnes

As a recruit fresh from the working class, one of my main interests in geology is the graduate employment rate. A geological summer job exists somewhere out there, I just don't know where as yet.

I began university in the Forestry degree program, but switched to geology after 2 years when I found summer job hunting to be a full time job itself. I spent last summer working on Gulf Minerals Great Bear Lake project. This summer I'm headed to Northern Saskatchewan on the employ of Eldorado Nuclear, and once again on the search for uranium.





George Chomacki

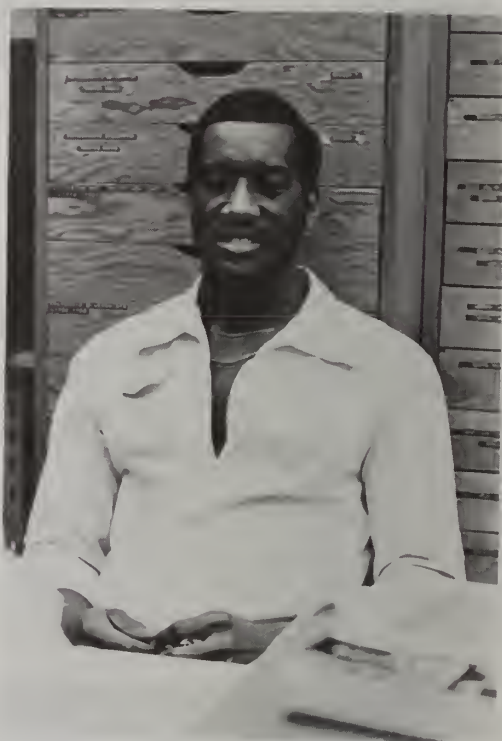
The summers of '78 and '79, I spent working in the N.W.T. My geological interests are diverse with an underlying motivation to succeed academically.

Favourite activities include canoeing, fly-fishing, hunting, and Nordic skiing. (Was the undisputed backgammon champ of the Dubawnt Lake area.)

Keith Dailey

Interests in Geology - Basic, intend to make it a living some day. Maybe add a new dimension to oil exploration in Trinidad.

Summer Employment - Observing features of interest on the beaches of Trinidad. Hope to be more successful this year.



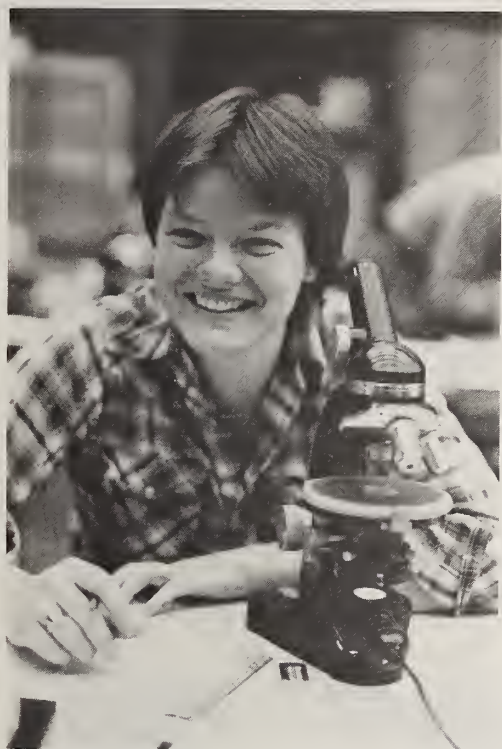
Robert Dubyk

Thus far I have spent one summer working in the office in Thunder Bay, and in the Atikokan area for MNR - OGS. Outside interests; I'm involved in carrying a portable office in a brief-case and working in a darkroom.



Mike Schulze

I'm having a good time at L.U. I'm looking forward to summer field work and am interested in mineralogy, as well as generous amounts of partying and being outdoors away from urban sprawls.



Eleanor Sidey

Due to the fact that no one will hire me, I have never been employed in any geology related fields. I am in second year, but at the rate I'm going, I hope to graduate within the next decade.

Tim Twomey

Hi! I'm in second year geology (mostly). I've spent 2 summers in the bush. My first summer I met Jack Parker who showed me the way to geology and drinking. Last summer, I broke my leg midway through the field season and had to spend half the summer at home, at the beach in my cast and getting fully paid.

See you at the Prospector's Convention in Toronto.





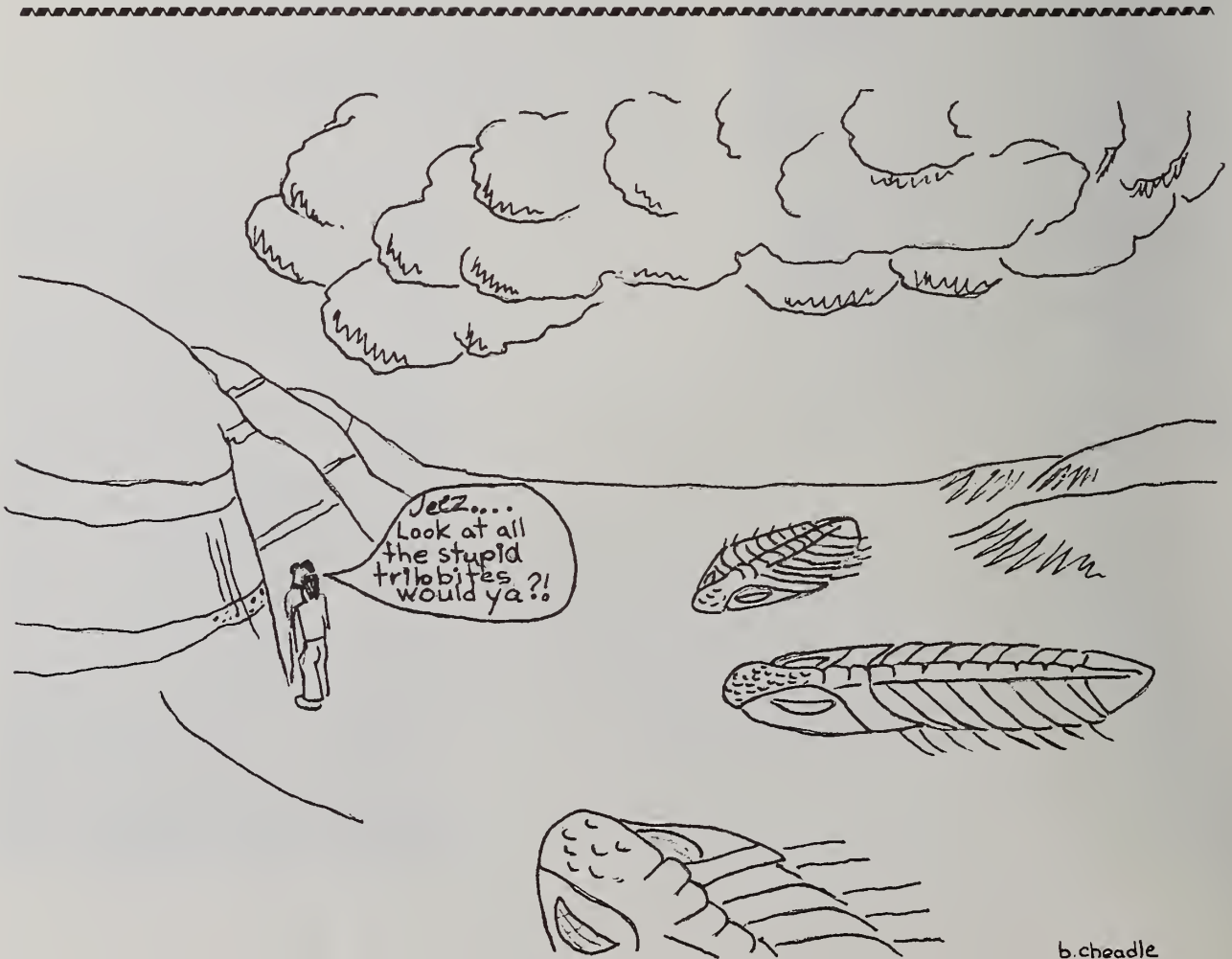
Kathy Holopainen



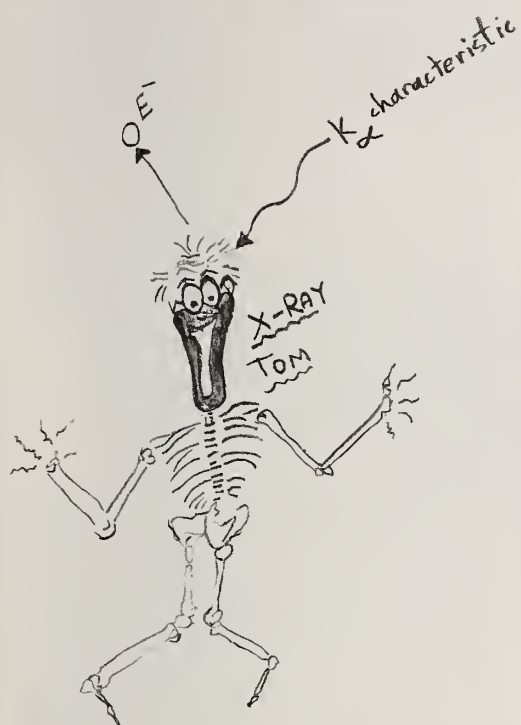
Dan Bunner



Rob Reukl

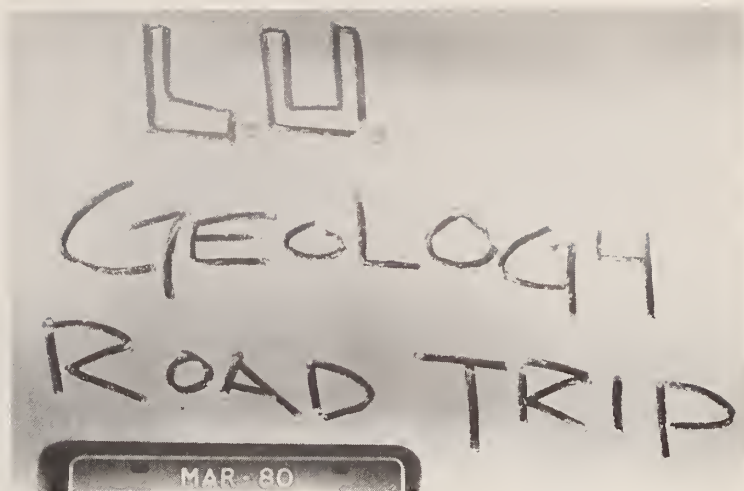
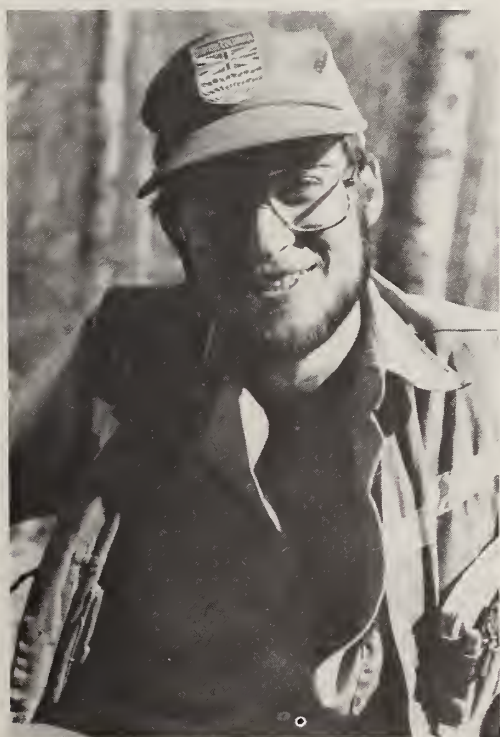
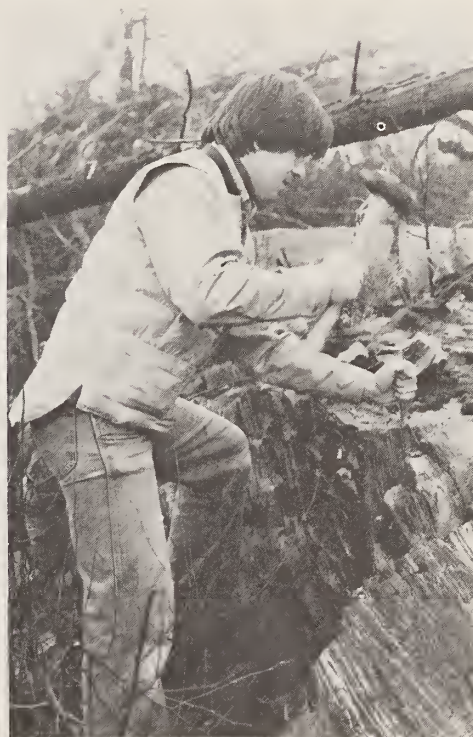


b.cheadle



FIELD TRIPS





Message from the

Thankyou to Bev, Mary, Barb, Myriam, Kevin,
Kathy, John S., Heather, Tim, Rob D., Brett,
Burns, and Wendy.

A special word of thanks to Sam Spivak,
Nancy Oloman, Larry Kovac, Myra Kennedy,
and John Etches.

To the grads, good luck and be sure to keep in touch!

To my fellow aspiring geologists, let's do our damndest
to "hang in there" for 1980-81.

Sincerely yours,
Rob Bennett







