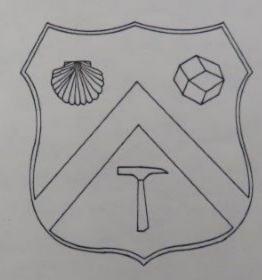
1966/67

Arts and Science Geology Geological Engineering Geological Engineering (Geophysics) Mining Engineering Petroleum Engineering and Ground Water Geology Graduate Studies





University of Saskatchewan

SASKATOON

UNIVERSITY OF SASKATCHEWAN APCHIVES

ACKNOWLEDGMENTS

The Ore Gangue wishes to acknowledge the following company for its financial assistance and encouragement in making this booklet possible:

International Nickel of Canada Ltd.

This booklet published by the Ore Gargue Society is a means of introducing senior and graduate students in Geology, Geological Engineering, Applied Geophysics, and Mining to the Mineral and Petroleum industries.

It is the policy of the Department of Geological Sciences to cover the whole field of geology or mining in a comprehensive and evenly balanced review without emphasis on some branches and a relative neglect of others at the undergraduate level, and only at the graduate level is the student allowed to specialize. Students in Engineering (Geological, Geophysics, and Mining) are required to take introductory and advanced classes in the basic cognate sciences (Chemistry, Mathematics and Physics). Students in Arts and Science are required to take the introductory classes in the above cognate sciences and are strongly advised to take the advanced classes.

In the ordinary (three year) B.A. degree course it is impossible for a student to take all the basic classes in Geology. Therefore, he is advised to come back for a fourth year in order to complete these classes. Most of our students have taken this advice, and upon successful completion of the fourth year they are awarded a certificate stating that they have completed a course equivalent to the four-year Hanours Course.

Additional information may be obtained from the Department of Geological Sciences.

A. R. Byers,

Head-Department of Geological Sciences

FACULTY

Braun, W.K., Ph.D., Tubingen, 1958: Micropalaeontology and Stratigraphy. Burke, K.B.S., Ph.D., Leeds, 1961: Applied Seismology and Exploration Geophysics.

Byers, A.R., Head of Department, Ph.D., McGill, 1936: Structure, Precambrian, Mineral Deposits.

Caldwell, W.G.E., Ph.D., Glasgow, 1957: Palaeontology, Stratigraphy.

Coleman, L.C., Ph.D., Princeton, 1955: Mineralogy, Geochemistry.

King, M.S., Ph.D., Univ. of California, 1964: Rock Mechanics.

Kupech, W.O., Ph.D., Michigan, 1950: Pleistocene, Geomorphology. Langford, F.F., Ph.D., Princeton, 1960: Petrology and Precambrain

Geology.

Palmer, R.F., B.E., McGill, 1935: Mining Engineering.

Stauffer, M.R., Ph.D., Canberra, 1964: Structural Geology.

Thomson, S.A., B.Sc., (Saskatchewan) Instructor - Geology and Surveying.

Research Associates:

Arnold, R.G., Ph.D., Princeton, 1958: Mineral Deposits, Geochemistry of Sulphides.

Christiansen, E.A., Ph.D., Illinois, 1959: Pleistocene, Ground Water.

Meneley, W.A., Ph.D., Illinois, 1964: Pleistocene, Ground Water.

Smith, J.R., (Head, Geological Division), Ph.D., Princeton, 1954:
Petrology, Geochemistry of Silicates.

Steeve, Margaret, W., Ph.D., Harvard, 1959: Palynology.

GEOLOGICAL SCIENCES: COLLEGE OF ARTS AND SCIENCE

The College of Arts and Science affers caurses leading to the degree of Bachelor of Arts. Studies for the degree may be undertaken in either an ardinary or an honours course. An ordinary caurse extends over three years and includes fifteen classes. An honours course requires four years and twenty classes, for the degree with honours.

Curriculum : Ordinary Course

- 1. English 102
- 2. French 102 or another language
- 3. Political Economy
- 4. History 102 or Philosophy 101
- A class in each of four of Biology, Chemistry, Geography, Geology, Mathematics, Physics
- 6. Three other classes (making four in all) in Geology
- Four electives of which at least two are in a subject in which the student already has credit for a class

Honours Course

The honours course consists of twenty classes and a comprehensive examination and normally takes four years. At least ten of these classes will be taken in geology and others will be taken in the same subject or in cognate subjects.

Formal admission to an honours course is not granted before the end of a student's second year, after he has successfully completed at least ten classes in the ardinary course and has earned an average of at least seventy per cent in all classes taken.

Cuuriculum : Honours Course

1. Eight compulsory general classes

English 102 French 102 or another language Political Economy History 102 or Philosophy 101 General Chemistry General Geology Elementary Calculus or General Biology General Physics

- 2. Nine upper year Geology classes from fourteen offered
- 3. Three advanced classes from Biology, Chemistry, Mathematics, Physics, Geophysics
- 4. One elective

Honours students in Geophysics substitute three classes in Applied Geophysics and advanced classes in Mathematics and Physics for five classes in Geology.

ARTS AND SCIENCE



Barbara A. Battiste Age: 19 Saskatoon Address : 302 Hilliard St. East,

Course : 8.A. - 1967

Scholarships : Queens' Prov. Scholarship, Queens University (1964); Mawdsley-Edmunds

Geological Scholarship (1965)

Single

Experience : Ass't Geologist for Husky Oil of Canada

May/66 - Sept./66

Date Available for Work: May, 1967



Gerald E. Bidwell Age: 20 Single

Saskatoon Address : 1117 Aird Street

: Box 67, Home Address

Plato, Sask.

: B.A. (Honours Equivalent) May, 1967 Course Experience : 2 summers - student Ass't. with D.M.R.

Job Preference : Open

Date Available for work: Spring, 1967



Ronald H. Brown Age: 26 married

Saskatoon Address : #19, 2601 - 7th Street East,

Degrees : B.A.

: Honours equivalent, 1967 Course

: Keith Consulting Eng.: 1959-1964 Experience. Lab. tech. and Project Supervisor; Sask.

Research Council: 1965 (summer) Geol. Asst

Job Preference : Production or Exploration (Oil)

Date available for Work: June 1, 1967



Age: 20 Saskatoon Address : 847 Temperance Street Home Address : 316 Niderost Street, : Arts & Sc., Geology Major; May, 1967 Course Scholarships t Gav't, of Sask, Entrance Scholarship Experience : Ass't, Geol, with Husky Oil Can. Ltd., Calgary; summer 1966 Job Preference : Petroleum Industry Date Available for Work: June, 1967

Single

Jeonne M. Gonnason

Date available for work:



Donald W. Hersak Age: 24 Single Saskatoon Address : c/o Dept. of Geological Sciences U. of S. : 130-25th Street West, Home Address Prince Albert, Sask. : B.A. (Economics) Degrees Honors Geology - 1967 Course Gov't of Sask. Entrance Scholarship Scholarships : Summers 1961-63 - Dept. of Not. Res. Experience Smokejumper; summer 1964 - Sask. Res. Council (Hanson Lake)- Geol. Ass't. 1965 - Cominco Expl. (North B. C. Geol. Asst.; 1965-66 - Peoce River Oil Pipe Line Co., Calgary, Management trainee 1966- Great Plains Development Co. of Can. - Expl. Party Chief (North Sask.) Job Preference Open Spring, 1967



Single Age: 23 Emmett J. Horne : 314 4th Street Saskatoon Address : 140 - 22nd, Street West, Home Address Prince Albert, Sask. : Honours Equivalent, 1967 Course : Ass't, Dept. Mineral Res. Sask.; Senior Experience Ass't, Ont. Dept. of Mines; Staff Geol. Noranda Mines (Geco. Div.) : Exploration and Mining Geology Job Preference



Daryll W. Myhr Age: 21 Single Saskataan Address : 315 Bottomley Avenue North Home Address : 8ax 183 Preeceville, Sask. : 8.A. Degrees : Hanours Equivalent, 1967 Course : Geol. Ass't, N.W.T.; B.A. Oil Co. Experience Geol. Ass't Flin Flon, Mon.; Sask. Res. Council Job Preference : Exploration June, 1967 Date Available for Work:



Age: 26 Dale H. Rask : 1403 Alexandra Ave Saskatoon Address : Watrous, Sask. Home Address : B.A. Degrees : Honours Equivalent 1967 Course t Gov't of Sask. University Entrance Scholarships Chevron Standard 4th year . PFRA - Land & Constr. Surveys 2 1/2 yrs. Experience 1963-65; Texaco Expl. - Jr. Geol. 1966 : Exploration Job Preference June, 1967 Date Available for Work:

Single

Married



Age : 21 Marilyn Gail Truscott : 1317 12th Street East Soskatoon Address : Glidden, Sask. Home Address : B.A. Degrees : B.A (Honours) in Geology; 1967 Course : Sask. Gov't Entrance: John Fedan Scholarships : 8.A. Oil Co., 1966 summer Experience May 15, 1967 Date Available for Works

GEOLOGICAL SCIENCES : COLLEGE OF ENGINEERING

The courses of study prescribed for the Bachelor of Science in Engineering (B.E.) extend over four years. Required subjects in the first year are the same for all branches.

Curriculum: first year all branches	Curriculum : second year regular cause	Curriculum : second year geological and mining engineering
General Chemistry Descriptive Geometry Elementary Mechanical Drowing English Elementary Calculus Mechanics, Heat and Sound Engineering Tutorial Physical Training	Applied Mechanics Elementary Organic Chemistry Surveying Mechanical Drawing Geology Calculus Mechanics of Machines Thermodynamics Electricity, Magnetism, Light and Modern Physics	Applied Mechanics Physical Chemistry Surveying General Geology Calculus Mechanics of Machines Electricity, Magnetism, Light and Modern Physics

The related fields for which courses are designed are Geological Engineering, Geophysics Option, Mining Engineering and Petroleum Engineering. Students may enter the third year courses by taking either second year Geological Engineering, second year Engineering Science, or the regular second year.

Admission to second year Geological Engineering requires that the student obtain an average of sixty-five per cent in the first year.

Regular second year engineering students must obtain an average of sixty-five per cent, either in second year, or over the first two years.

third year

Geological Engineering	Geological Engineering Geophysics Option	Mining Engineering
Mathematics Methods Minerology and Petrology I Optical Minerology Palaeontology, Sedimentation ond Stratigraphy I Structural Geology Field Geology Introduction to Geophysics Introduction to Mining Palitical Economy	Mineralogy and Petrology I Sedimentation and Stratigraphy Structural Geology Mathematical Methods Principles of Geophysics Exploration Geophysics Differential Equations I Introduction to Mining Political Economy	Fluid Mechanics Mineralogy and Petrology I Structural Geology Mathematical Methods Exploration Geophysics Mining Practice I Mineral Processing Mining Field Trips Political Economy

Geological Engineering	Geological Engineering Geophysics Option	Mining Engineering	
Electrical Circuits Elements of Aministration Petrology Sedimentation Stratigraphy Geophysical Exploration Public Speaking Specifications and	Explanation Geophysics Interpretation Geophysics Theory of Measurements Introduction to Modern Physics Electronics Public Speaking Specifications and Agreements	Soil Mechanics Electrical Circuits Petrology and Stratigraphy Metallic Mineral Deposits Mineral Exploration Mineral Processing Rock Mechanics Mine Design	
Agreements Thesis	Thesis	Mine Organization and Administration Public Speaking	
Plus : Option A Structures Metallic Mineral Deposits Mineral Exploration	Plus : Option A Metallic Mineral Deposits Mineral Exploration	Specifications and Agreements Thesis	
or Option B Structures Sedimentary Aquifers Non-metallic Mineral Deposits	or Option 8 Sedimentation Non-metallic Mineral Deposits		

Petroleum Engineering

Any student interested in Petroleum Engineering, who has a degree in Engineering, and an average mark in the last two years of his undergraduate work of not less than 65 per cent, is recommended to proceed either to the Master's course or to the one-year diploma course in Petroleum Engineering.

MINING ENGINEERING

GEOLOGICAL ENGINEERING



Single Joseph R. Korol Age: 21

Saskatoon Address : 851 University Drive : Elstow, Sask, Home Address

: Geological Engineering, 1967 Course

: Sampler Operator (Sask, Res. Council) Experience Rodman-draftsman, Toronto; Roughneck

& driller on a water well drilling rig

: Work on a Drilling Rig Job Preference Summer, 1967 Date Available for Work:



Age: 21 Single Ken Statham

: #303 - 505 Clorence Avenue south Saskatoon Address

: Box 1075 Home Address

Melfort, Sask.

: Geological Engineering Course : Univ. Entrance Scholarship

Scholarships : The Devonian Formations of Manitoba

Thesis Topic '64-'65 Sask, Res. Council Jr. Ass't. Experience on a Precambrian Mapping Party;

'66, Pan-Am. Petroleum Corp. Expl. Div.

: Exploration Job Preference

May 15th, 1967 Date Available for Work:



Bernard A. Bintner

Age: 21

Single

Saskatoon Address

: Qu'Appelle Hall University of Sask.

: 70 Calder Crescent, Home Address

Regina, Sask.

: B.E. (Mining) 1967 Course

: Queen Elizabeth Scholarship, Regina Scholarships

: Sr. Undergrad, training Programme Experience

Cominco Ltd., Sullivan Mine; Lab. Tech. Independent Testing Lab. Ltd., Regina

: Open Job Preference

Date Available for Work:

June 1, 1967



Age: 24 Single Michael J. Frey

. #14 Riviera Apartments Saskatoon Address

322 6th Avenue North : 1929 Wallace Street Home Address

Regina, Sask. : B.E. (Mining) 1967 Course

: Nitro - Carbo - Nitrate Explosives Thesis Topic

: Ind. Eng. Tech. - 14 mos.; Seismic Experience

Geophysical Exploration Ass't - 4 mas.; Eng. Ass't. - 1 yr.; Geol. Ass't - 4 mos.

: Production phase of mining

Job Preference June, 1967

Date Available for Work:

HBMAS, FIINFlow

Don R. MacTavish

Age: 23

Single

Saskatoon Address Course

201 - 113 Street : B.E. (Mining) 1967 : Hydroulic Hoisting

Thesis Topic Experience

: Mine development - shaft, raise; Mine Eng. - underground surveying, Bonus Eng., some planning: Exploration

Soil sampling, surface surveys, etc.

Date Available for Work:

1973 United Kens Hill 1974 erail Sask - Farming

GRADUATE STUDENTS

MASTERS DEGREE



Allyn J. Steward Single Age : 21 Saskatoon Address

: 1310 10th Street, East Home Address : 513 24th Street, East Prince Albert, Sask. Course : B.E. (Mining) 1967 Scholarships : Gov't, Entrance Scholarship Sherritt - Gordon Grant Experience : Sheep Creek Mines, Ltd., Invermere,

B.C. - underground laborer; Sherritt-Gordon Mines Ltd., Lynn Lake, Man. Blasthole engineer, expediter for Fox Loke Property

Job Preference : Open Date Available for Work: June 1, 1967



Margaret M. Brooke Age : Single

: #10 802 5th Avenue North Soskatoon Address Degrees : B.H. Sc., B.A. : M.A. Nov. 1967 Course Scholarships : S.R.C. Grant : Biostratigraphic correlation of Upper Thesis Topic Jurassic Microfauna of N.W.Montana and S. Sask.

: Micropalaeontological Research Job Preference Date Available for Work: Fall 1967



Single George Burwasser Age: 22

: 416 Loke Crescent Saskatoon Address : 3683 Severn Road, Home Address Cleveland, Ohio 44118, U.S.A. : A.8. (Western Reserve University, Degrees Cleveland, Ohio) M.A., 1968 Course Ice thrust features of the Interior Plains Thesis Topic

Micropolaegentological Lab. Tech. Experience Exploration Geology Job Preference September 1968 Date Available for Work:



Age: 22 Single Barry Finleyson

: Box 288, University of Sosk. Saskataan Address : 20 Spence Street, Apr. 16, Home Address Reging, Sask. : B.Sc. (Geological Engineer (Geophysics

Degrees Option) : M.Sc.; Sept. 1967 Course

Chevron Standard Undergrad, Schalar-Scholarships ship 1964-65, 1965-66; Chevron

Standard Grad. Fellowship (not accepted) Grad. Ass'tship, U. of S. : Propagation and Characteristics of Thesis Topic

Seismic Waves in Surficial Material : G.S.C. - I summer on surface resistivity Experience crew; G.S.C. - I summer as Seismic

observer; Chevroh Std. Ltd. - student trainee

Seismic Interpretation Job Preference: November, 1967 Date Available for work:



Monirul Hoque

Age: 26

Skittitle

Saskatoon Address : 2603 Paul Crescent Home Address : Dacca, East Pakistan Degrees

: M.Sc. in Geology (Dacca University, East Pakistan)

Course : M.Sc., 1967 Scholarships

: Commonwealth Scholarship and Fellowship Thesis Topic : Structure, Petrology and Genesis of

Gypsumville (Manitobo) Evaporites Experience : (1) Lecturer in Geology, Dacca Univ.

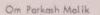
East Pakistan - 1961 - 1964; (11) Ont. Dept. of Mines - Summer 1965, Ass't

Geologist

Job Preference : Preferably on Evaporites

Date Available for Work:

June, 1967



Age: 23

Single

Saskatoon Address : 209 Kelsey Hall, Univ. of Sask.

Home Address : c/o Shri G.D. Malik. Res. 503 Sector 16D,

Chandigarh

Degrees : B.Sc. (Hons); M.Sc., both at Puniab

Course : M.Sc. (1967)

Scholorships : Univer, Grants Comm. of India, U. of S. · Graduate Assistanship

: Some aspects of Isothermal Variation of Thesis Topic

the Fe - Ni - S System Experience : Lecturer-Indian Institute of Technology,

> New Delhi - one year; Geologist -Geol. Survey of India - 3 mos.

Job Preference : Exploration Geology Date Available for Work: June, 1967



Ronald A. McIntosh

Age: 24

Single

Saskatoan Address : 702 3rd Avenue North

Home Address : Box 898 Melfort, Sask.

: 8. Sc. (Geological Engineering) Degrees Course

: M.Sc., Spring, 1967 : Sask. Govt. Entrance Scholarship Scholarships Research Assistanceship

: Salt Horses in Sask. Potash Ore Beds Thesis Topic : 2 summers Pleistocene Geology & Experience

Groundwater with Sask, Res. Council; 16 mos. as Jr. Geol. - Imperial Oil

Job Preference Open January 1966 Date Available for Work:



J. Ross McLean

Age: 22

Single

Saskatoon Address : 616 - 13th Street East

Degrees : 8.5c. (Geological Engineering)

: M.Sc. 1967 Course

Scholarships : Sask. Govt Entrance Scholarship-1961; U. of S. Undergrad. Scholarship (1962-

1965); Can. Superior Oil Scholarship (1961-65); Not. Res. Council Bursary (1965-66)

Thesis Topic

: Petrology of the Belly River Formation in West Central Saskatchewan

Experience : Geological Survey of Can. - 1966; Sask. Res. Council - 1965, 1961; Imp. Oil Ltd. - 1964; Shell Con. Ltd.,

1963; Sask. Dept. Mineral Res. - 1962 Petroleum Industry

Job Preference Date Available for Work: Spring, 1967



Amar Chandra Mukherjee

Age: 31

Married

Saskatoon Address : Sask, Hall, Hearne House Room 109

: Bunglowno 384/1 Development Home Address Kharapur, W.B., India

: B.Sc., (Hors.) M. Tech. (I.I.T., Degrees

Khargpur, W.B.) : M.Sc., 1967 Course

Univ. Teaching Assistanship Scholarships

Thesis Topic Structural Geology Experience

University Teaching in India - 7 years Structural Mapping Job Preference

Date Available for Work:

May to Aug. 1967



John Perry

Age: 23

Single

Saskatoon Address Dept. of Geol. Sciences U. of Sask.

: Washago P.O. Home Address Washago, Ont.

: B.A. Sc., Engineering Geology, Toronto Degrees

M.Sc. Hydrology, 1968 Course NRC Grant Scholarships

: Investigation of Recharge & Discharge Thesis Topic Sloughs in Oak River Basin, Man.

: Summers 1966 - Grad. Ass't. Water Experience Res. Branch, 1965, 1964 & 1963 -

Student Assistant - G.S.C. Consulting Hydrology Firm Job Preference

Date Available for Work:

1968



Solem R. Sangameshwar Age: 28 Single Saskatoon Address : 1505 Cumberland Avenue South Home Address : c/o Dr. S.R. Roo 64, IV Block (West) Jayanagar Bangalore-II, India Degrees : B.Sc., (Hons.) Mysore; M.Sc. Mysore Course : M.Sc., 1967 Scholarships : Subject Scholar in Honours Geology University of Mysore Thesis Topic : Some aspects of Sulphide Mineralization Experience : Ass't. Geol., Govt of Madras, India, 1961-64; Geol. Int. Nickel Co., Ont.

June 1965 - Sept 1966; Geol. INCO,
1 year

Job Preference : Research Geologist or Teaching
Date Available for Work: Not available in 1967

Age: 21

Age: 28

Single

Married



Dwight Streeton

John E. Wyder

: 1122 Osler Street Saskatoon Address Home Address : Box 21 Meskanaw, Sask. : B.A. (Hon.) Degrees Course : M.A., 1967 : Sask, Govt Scholarship; Dome Petrol. Scholarships Scholarship; U. of S. Honours Scholar-: Geology of the Prairie Evaporite Thesis Topic Formation, Yorkton Area : Summer Employment with Imperial Oil Experience Enterprises Job Preference Open Date Available for Work: June, 1967



: 520 - 2nd Street East Saskatoon Address Home Address : 2094 5th Avenue Trail, B.C. : B.A. Sc. (U.B.C. - 1961); M.Sc., Degrees (U. of S. - 1964) Course : Ph. D., 1967 : Cominco, Dalhousie Graduate Scholar-Scholarships ship, ; Graduate Assistantship : Application of Geophysical Techniques Thesis Topic to locating Aquifers in Glacial Sediments : Geological Ass't, Cominca; Student Experience Trainee, Mobil Oil of Canada, Party Chief, Surface Resistivity Party, G.S.C. : On educational leave from G.S.C. Job Preference

MASTERS MINING ENGINEERING

Menno Friesen		Age: 29	Married
Saskatoon Address		Suite 1 - 704 Duchess Street	
Home Address	: 8	lox 104 Noerdeen, Sask.	
Degrees		.Sc., (Geological Eng.)	
Course		A.Sc., (Mining Eng.) - Nov	1967
Scholarships		Frant Yellowknife Scholanh	
Thesis Topic	: N	Mechanical Properties of Ly ock as an aid to Mining	Contract Con
Experience	: P	it Foreman, Pit Engineer-Iro yr.; Planning EngEndaka 7 mas; Engin-Training, St ordan Mines - summer 1966	Mines Ltd.
Job Preference		pervision	
Date Available for Wo	rk:	November, 1967	



Saskatoon Address : Box 322 University of Sask. : R.R. #4 Home Address Saltcoats, Sask. Degrees : B.E. (Mining Engineering) : M.Sc., (Mining Eng.) 1967 Course : NRC Bursary, Superior Scholarship, Scholarships INCO Scholanhip, Univ. Undergrad. Scholarship, Mawdsley-Edmunds Scholarship, APES Book Prize 1965 Thesis Topic : Drawdown Control I summer with Cominco at Sullivan Experience. Mine, 3 summers - IMC at Potash Mine Job Preference Mining Engineer Date Available for Work: Latter part of 1967

Age: 22

Single

James L. Popowich

DOCTORATE DEGREE



William J. Gaskarth Age : 26 Married Saskatoon Address : #15 - 2707 7th Street East Degrees : B.Sc., (Hors.) Leeds, M.Sc., McGill Course : Ph.D. 1967 Scholarships : INCO Fellowship 1964-66; Institute for Northern Studies-Muskox Scholarship, 1866 Thesis Topic : PH.D. Petrology and petrogenesis of the Pre Cambrian Rocks in the Hanson Lake Area, Sask. Experience : 2 summers mapping for theses in N.W. England and Central Pyrenees France; 4 summers - 500' to 1" PreCambrain mapping in the Hanson Lake Area, Sask. Job Preference Date Available for Work: Summer 1967



Saskatoon Address : Dept. of Geological Sciences, University of Saskatchewan : 731 Peerpur Square, Narahi, Home Address Lucknow(U.P), India : B.Sc. (Luck.), M.Sc. (Luck.), M.Sc. Degrees (St. John's) - expected : Ph.D. 1969 Course : NRC Research Assistantship Scholarships : Microfossils and climatic conditions of Thesis Topic Upper Devonian rocks of Sask, and Alta. : Geological mapping and surveying in Experience India and Newfoundland; 2 yrs. exp. as Tech. Ass't. in Oil & Natural Gas Comm, Dehradun(U.P.), India : 1. Univ. teaching, 2. either scientific Job Preference officer or geologist in an oil company 1969 Date Available for Work:

Age: 24

Single

Avinash Chandra Nautiyal