



THE GAWDUS

Mineral Deposits Division Geological Association of Canada No. 17 November 1983



R.W. HUTCHINSON WINS 1983 DUNCAN DERRY MEDAL

R.W. (Dick) HUTCHINSON (LEFT) ACCEPTED THE 1983 DUNCAN R. DERRY MEDAL AT THE GAC ANNUAL LUNCHEON AT VICTORIA '83. THE MEDAL IS AWARDED ANNUALLY BY THE M.D.D. TO A GEOLOGIST WHO HAS MADE AN OUTSTANDING CONTRIBUTION TO CANADIAN ECONOMIC GEOLOGY. THE MEDAL WAS PRESENTED BY OUTGOING MDD CHAIRMAN, J.A. COOPE, WHOSE CITATION FOLLOWS:

MR. CHAIRMAN, LADIES AND GENTLEMEN,

THE 1983 DUNCAN R. DERRY MEDAL WINNER WAS BORN IN LONDON, ONTARIO. HE OBTAINED HIS B.Sc. GEOLOGY FROM THE UNIVERSITY OF WESTERN ONTARIO IN 1950. HIS M.Sc. AND PH.D. DEGREES WERE AWARDED TO HIM BY THE UNIVERSITY OF WISCONSIN.

DURING THESE UNIVERSITY YEARS, HE WORKED IN CANADA FOR THE GSC AND SEVERAL MINING COMPANIES. IN ADDITION, SEVERAL MONTHS WERE SPENT ON A SPECIAL PROJECT IN EAST AFRICA.

HIS POST-GRADUATE WORK INVOLVED ORE MICROSCOPY STUDIES AND THIS INTEREST LED TO AN EARLY DEVELOPMENT OF EXPERTISE IN THE ECONOMIC GEOLOGY, MINERALOGY AND PETROLOGY OF PEGMATITE DEPOSITS.

FROM 1954-1964 DICK HUTCHINSON WORKED FOR THE AMERICAN METAL CLIMAX GROUP IN CANADA AND THE U.S.A. HIS KNOWLEDGE OF PEGMATITES WAS WELL UTILIZED, BUT IT WAS IN THESE YEARS THAT HIS OPPORTUNITIES AND INTERESTS BROADENED.

INFLUENCED BY DEVELOPING IDEAS AND HIS OWN FIELD OBSERVATIONS ON THE GEOLOGICAL ENVIRONMENT OF MASSIVE BASE METAL SULPHIDES, HE BECAME A FREQUENT CONTRIBUTOR TO THE SCIENTIFIC DISCUSSION ON THESE TYPES OF DEPOSITS.

HIS CONTRIBUTIONS INCREASED FOLLOWING HIS APPOINTMENT IN 1964 AS ASSOCIATE PROFESSOR IN MINERAL DEPOSITS GEOLOGY AT THE UNIVERSITY OF WESTERN ONTARIO.

IN 1969 HE BECAME A FULL PROFESSOR.

HE AND HIS STUDENTS CHAMPIONED THE EXHALATIVE CONCEPT FOR THE GENESIS OF VOLCANOGENIC MASSIVE SULPHIDE DEPOSITS. THE EVIDENCE, THE DEBATES, THE ARGUMENTS, STIMULATED THE ECONOMIC GEOLOGY COMMUNITY AND BROUGHT INTERNATIONAL ATTENTION AND RECOGNITION.

THERE WERE ALSO IMPORTANT, GRAPHIC PAPERS ON METALLOGENY. PRESENTATIONS ON THE ARCHEAN METALLOGENIC MODEL (WHICH WON THE CIM BARLOW MEDAL IN 1971) AND THE POSSIBLE METALLOGENIC RELATIONSHIPS BETWEEN MASSIVE SULPHIDE AND PORPHYRY COPPER DEPOSITS, PLUS OTHER CONTRIBUTIONS, PORTRAY, WITH ALMOST OUTRAGEOUS CLARITY, THE COMPLEX RELATIONSHIPS OF MINERALIZATION IN THE VOLCANIC ENVIRONMENT.

OTHER SUBJECTS - SUCH AS THE EFFECTS OF METAMORPHISM, EVAPORITE DEPOSITS, THE SUDBURY STRUCTURE AND GOLD HAVE ALSO COMMANDED HIS ATTENTION. THE PAPER ON THE "EVIDENCE OF THE EXHALATIVE ORIGIN OF TASMANIAN TIN DEPOSITS" WON HIM A SECOND BARLOW MEDAL FROM THE C.I.M. IN 1979.

HIS CONTRIBUTIONS TO THE MINERAL DEPOSIT LITERATURE EXCEED 70 AND THE LIST IS GROWING.

HE SERVED AS AN ASSOCIATE EDITOR OF THE CANADIAN JOURNAL OF EARTH SCIENCES FROM 1975 TO 1978. HE HAS COMPLETED A TERM AS DISTINGUISHED LECTURER OF THE C.I.M. MORE RECENTLY, HE EDITED THE VERY POPULAR GAC SPECIAL VOLUME 25 ON PRECAMBRIAN SULPHIDE DEPOSITS - THE H.S. ROBINSON VOLUME.

HIS REPUTATION IS GLOBAL. WITHIN THE LAST 15 YEARS HE HAS PRESENTED INVITED LECTURES IN CANADA, THE UNITED STATES, BRAZIL, COLUMBIA, ENGLAND, YUGOSLAVIA, SPAIN, PORTUGAL, WEST GERMANY, ITALY, AUSTRALIA, PHILIPPINES, MALAYSIA, UPPER VOLTA, SOUTH AFRICA AND ZIMBABWE.

HE HAS CONSULTED FOR THE UNITED NATIONS IN KENYA AND THE PHILIPPINES AND FOR A MAJOR CORPORATION IN BRAZIL.

IN 1983, HE TOOK OFFICE AS THE PRESIDENT OF THE SOCIETY OF ECONOMIC GEOLOGISTS AND LATER THIS YEAR HE WILL END HIS LONG AND MEMORABLE ASSOCIATION WITH THE UNIVERSITY OF WESTERN ONTARIO TO TAKE UP THE FIRST APPOINTMENT TO THE CHARLES E. FOGARTY CHAIR OF ECONOMIC GEOLOGY AT THE COLORADO SCHOOL OF MINES.

LADIES AND GENTLEMEN, THIS YEAR'S DUNCAN R. DERRY MEDAL WINNER IS A GREAT TEACHER, A GIFTED SPEAKER AND AN ENTHUSIAST. HIS INSPIRED STUDENTS POPULATE SUCCESSFUL EXPLORATION COMPANIES AND MINERAL DEPOSIT RESEARCH INSTITUTIONS AROUND THE WORLD.

HE HAS ADDED SIGNIFICANTLY TO OUR KNOWLEDGE AND UNDERSTANDING OF DIVERSE TYPES OF IMPORTANT MINERAL DEPOSITS AND HAS IMPROVED OUR EFFICIENCY IN MINERAL DISCOVERY.

A MOST WORTHY RECIPIENT AND A GENTLEMAN OF DISTINCTION - DR. R.W. (DICK) HUTCHINSON.

MESSAGE FROM THE CHAIRMAN

ACCORDING TO THE LATEST COMPUTER PRINT-OUT FROM OUR NEW GAC HEADQUARTERS IN ST. JOHN'S, MDD MEMBERSHIP STANDS AT A NEW HIGH OF 783. THE MDD EXECUTIVE CONTINUES TO BE VERY CONSCIOUS OF THIS LARGE MEMBERSHIP AND APPRECIATIVE OF THE INTEREST IN MINERAL DEPOSIT GEOLOGY THAT IS HELD BY SUCH A NUMBER OF THE GAC MEMBERSHIP AT LARGE. YOUR NEW EXECUTIVE HAS UNDERTAKEN THE CONTINUING RESPONSIBILITY OF MAINTAINING EXISTING PROGRAMS AND DEVELOPING NEW ONES IN THE HOPE THAT THESE WILL CONTINUE TO PROVIDE AN OUTLET AND FOCUS FOR OUR MEMBERSHIP.

MANY OF THE PROGRAMS CURRENTLY UNDERWAY BY THE MDD WILL BE OUTLINED AND SUMMARIZED IN THESE PAGES. THESE REFLECT NOT ONLY THE INITIATIVES TAKEN BY PREVIOUS EXECUTIVES IN THE FIVE YEARS SINCE MDD CAME INTO BEING, BUT ALSO THE INITIATIVES OF INTERESTED MEMBERS WHO PROVIDED IDEAS, ENTHUSIASM, AND TIME TO GET NEW PROGRAMS UNDERWAY. THIS INVOLVEMENT IS CRITICAL TO OUR CONTINUED SUCCESS. IF YOU HAVE POTENTIALLY PRODUCTIVE IDEAS THAT YOU WOULD LIKE THE MDD TO CONSIDER, OR CONSTRUCTIVE COMMENT TO OFFER CONCERNING OUR PRESENT ACTIVITIES, PLEASE DO NOT HESITATE TO CONTACT ANY OF THE MDD EXECUTIVE OR ITS DIRECTORS THAT YOU WILL FIND LISTED ELSEWHERE ON THESE PAGES. YOU, THE MEMBERS, MAKE THIS DIVISION THE HIVE OF ACTIVITY IT IS. WE NEED YOUR SUGGESTIONS AND COMMENTS!

JOHN A. MACDONALD

CHAIRMAN'S REPORT FOR 1982-83: J.A. COOPE

THE MDD IS AN ACTIVE GROUP THAT WILL CONTINUE TO PLAY AN IMPORTANT PART IN THE FUTURE PROGRESS OF MINERAL DEPOSIT GEOLOGY. THE DIVISION IS WELL KNOWN FOR ITS FIELD TRIPS AND SPECIAL SESSIONS AND HAS A GOOD FINANCIAL FOUNDATION WITH WHICH TO CONTINUE SUPPORTING THESE ACTIVITIES. DURING THE PAST YEAR, I HAVE EMPHASIZED THE FOLLOWING ACTIVITIES:

- A. MINING CAMP FIELD AND REFERENCE MANUALS
- B. SHORT COURSES
- C. MDD INPUT INTO THE CANADIAN GEOSCIENCE COUNCIL TASK FORCE THAT WILL EXAMINE "RESEARCH IN EXPLORATION FOR MINERAL DEPOSITS".

IN ADDITION, PROGRESS CONTINUED TO BE MADE ON A NUMBER OF ON-GOING PROJECTS:

- A. PAPERS ON GOLD AND URANIUM WILL APPEAR IN GEO-SCIENCE CANADA IN 1983.
- B. SEVEN MANUSCRIPTS ARE UNDER REVIEW FOR VOLUME I OF THE MONOGRAPH SERIES ON MINERAL DEPOSITS.
- C. THE FIRST STEPS IN THE ORGANIZATION OF A 1985 SYMPOSIUM ON SEDIMENTARY COPPER DEPOSITS HAVE BEEN MADE.
- D. MEMBERS ARE BEING ASKED TO CONSIDER THE CANADIAN JOURNAL OF EARTH SCIENCES FOR PUBLICATION OF MINERAL DEPOSITS AND ECONOMIC GEOLOGY RESEARCH.
- E. FINAL PREPARATIONS AND MANUSCRIPTS WILL SOON BE COMPLETE FOR A SPECIAL ISSUE OF ECONOMIC GEOLOGY DEVOTED TO CANADIAN ORE DEPOSITS.

IN CLOSING I EXTEND CONGRATULATIONS TO THE GAC - VICTORIA ORGANIZING COMMITTEE FOR AN EXCELLENT MEETING AND REMIND MEMBERS OF MDD SPECIAL SESSIONS ON GOLD IN IRON FORMATIONS AND THE ROLE OF ORGANISMS IN ORE DEPOSITION, BOTH OF WHICH ARE SCHEDULED FOR GAC - LONDON IN 1984.

SECRETARY'S REPORT FOR 1982-83: R.S. HEWTON

AT THE END OF MARCH 1983, THE MDD HAD A MEMBERSHIP OF 690, DOWN 6 FROM 696 OF ONE YEAR AGO. MEMBERSHIP HAS REMAINED RELATIVELY STABLE SINCE 1981.

FOUR AD HOC MEETINGS WERE HELD IN VANCOUVER ON JUNE 1, SEPTEMBER 9, OCTOBER 13, AND NOVEMBER 19. ONE EXECUTIVE MEETING, ON MARCH 7 AT THE PROSPECTORS AND DEVELOPERS MEETING IN TORONTO, WAS HELD. A NUMBER OF TOPICS WERE DISCUSSED AT ALL THE ABOVE MEETINGS, THE MORE IMPORTANT OF WHICH ARE MDD PUBLICATIONS IN GEOSCIENCE CANADA, INAUGURATION OF SHORT COURSES, PREPARATION OF FIELD MANUALS OR GUIDE BOOKS FOR MINING CAMPS, AND INVOLVEMENT IN UPCOMING SYMPOSIA AND FIELD TRIPS.

THE MDD - CALGARY MEG GOLD DEPOSITS WORKSHOP WAS SUCCESSFUL AND DESPITE RESTRICTING ATTENDANCE TO 250, ALMOST 300 ATTENDED. COMMENTS RECEIVED HAVE ALL BEEN FAVORABLE. SIMILARLY THE MEXICAN FIELD TRIP WAS OVER-SUBSCRIBED AND WELL RECEIVED.

THE CIM MEETING IN WINNIPEG DREW A SMALLER ATTENDANCE THAN NORMAL FOR THE ANNUAL MEETING BUT THE MDD-SPONSORED SESSIONS WERE VERY WELL ATTENDED.

THE COPPER MOUNTAIN-PHOENIX DEPOSIT FIELD TRIP IN SOUTHERN B.C. WAS OVER-SUBSCRIBED AND REQUESTS HAVE BEEN RECEIVED FOR A REPEAT.

REACTION TO MDD-SPONSORED WORKSHOPS AND FIELD TRIPS EMPHASIZES A NEED FOR ECONOMICALLY ORIENTED DEVELOPMENT OPPORTUNITIES.

SINCE THE PREVIOUS SECRETARY'S REPORT, THE GANGUE HAS BEEN PUBLISHED OCTOBER 1982 AND JANUARY AND MAY OF 1983.

THE SLATE OF OFFICERS PROPOSED FOR 1983-1984 WAS DECLARED ELECTED BY THE MDD MEMBERSHIP AT THE ANNUAL GENERAL MEETING VICTORIA, B.C. ON MAY 13, 1983. A LIST OF OFFICERS FOLLOWS.

GEOLOGICAL ASSOC. OF CANADA, MINERAL DEPOSITS
DIVISION, PROPOSED OFFICERS 1983-84

EXECUTIVE COMMITTEE

CHAIRMAN JOHN A. MACDONALD
ESSO RESOURCES CANADA LTD.
600 - 1281 W. GEORGIA STREET
VANCOUVER, B.C. V6E 3N6
(604) 664-4023

PAST CHAIRMAN J. ALAN COOPE
NEWMONT EXPLORATION OF CANADA LTD.
33 YONGE STREET, SUITE 370
TORONTO, ONTARIO M5E 1T2
(416) 362-1687

VICE CHAIRMAN ROBERT S. HEWTON
BRINCO MINING LTD.
704 - 602 W. HASTINGS STREET
VANCOUVER, B.C. V6B 1P2
(604) 687-2557

SECRETARY J. FRANZEN
BILLITON CANADA
#406 - 601 W. CORDOVA STREET
VANCOUVER, B.C. V6B 1G1
(604) 669-5535

TREASURER A.J. SINCLAIR
DEPT. OF GEOLOGICAL SCIENCES
UNIVERSITY OF BRITISH COLUMBIA
VANCOUVER, B.C. V6T 2B4
(604) 228-3763

PROGRAM CHAIRMAN R.W. HODDER
DEPT. OF GEOLOGY
UNIVERSITY OF WESTERN ONTARIO
LONDON, ONTARIO N6A 2M6
(519) 679-3130

PUBLICATIONS CHAIRMAN A. LEE BARKER
LACANA MINING CORP.
BOX 354, ROYAL TRUST TOWER
TORONTO DOMINION CENTRE
TORONTO, ONTARIO M5K 1K7
(416) 367-0840

EDITOR, THE GANGUE K.M. DAWSON
GEOLOGICAL SURVEY OF CANADA
100 WEST PENDER STREET
VANCOUVER, B.C. V6B 1R8
(604) 666-1260

DIRECTORS

1983-86

J.R. FRASER
NORANDA EXPLORATION COMPANY LTD.
#4 - 2130 NOTRE DAME AVENUE
WINNIPEG, MANITOBA R3B 0K1
(204) 633-7252

A.C. COLVINE
ONTARIO GEOLOGICAL SURVEY
77 GRENVILLE STREET
TORONTO, ONTARIO M5S 1B3
(416) 965-0190

H.S. SWINDEN
DEPT. OF MINES AND ENERGY
MINERAL DEVELOPMENT DIVISION
P.O. Box 4750
ST. JOHN'S, NEWFOUNDLAND A1C 5T7
(709) 737-2769

1983-85

M. MARCHAND
2328 SUMAC ROAD N.W.
CALGARY, ALBERTA T2N 3T9
(403) 284-2044

I.A. PATERSON
COMINCO LTD.
700 - 409 GRANVILLE STREET
VANCOUVER, B.C. V6C 1T2
(604) 682-0611

G.R. PEATFIELD
KIDD CREEK MINES LTD.
357 BAY STREET, SUITE 300
TORONTO, ONTARIO M5H 2T7

1983-84

J.M. FRANKLIN
GEOLOGICAL SURVEY OF CANADA
601 BOOTH STREET
OTTAWA, ONTARIO K1A 0E8
(613) 995-5500

A.L. SANGSTER
SULPETRO MINERALS LTD.
301 - 2161 YONGE STREET
TORONTO, ONTARIO M4S 3A6
(416) 482-5422

T.J. BOTTRILL
SAMIM CANADA LTD.
P.O. Box 7, SUITE 2116
130 ADELAIDE STREET W.
TORONTO, ONTARIO M5H 3P5

TREASURER'S REPORT FOR 1982-83: A.J. SINCLAIR

INCOME

SALE OF MAILING LIST	\$ 50.00
GREENWOOD FIELD TRIP	533.75
INTERNATIONAL GEOCHEMICAL SYMPOSIUM - SASKATOON	1,000.00
MEMBERSHIP DUES	2,820.82
TOTAL	<u>\$4,404.57</u>

EXPENSES

THE GANGUE	\$1,069.92
DUNCAN R. DERRY MEDAL	147.97
SPEAKER EXPENSES	220.00
LETTERHEAD	266.89
BANK CHARGES	11.00
TOTAL	<u>\$1,715.78</u>

NET REVENUE	\$2,688.79
BALANCE ON HAND JANUARY 1, 1982	3,699.96
BALANCE ON HAND DECEMBER 31, 1982	<u>\$6,388.75</u>

DUNCAN R. DERRY MEDAL: CALL FOR NOMINATIONS

1. THE MEDAL IS AWARDED ANNUALLY TO AN OUTSTANDING ECONOMIC GEOLOGIST WHO HAS MADE MAJOR CONTRIBUTIONS TO THE SCIENCE OF ECONOMIC GEOLOGY IN CANADA. NOMINEES SHOULD PREFERABLY, BUT NOT NECESSARILY, BE MEMBERS OF THE MINERAL DEPOSITS DIVISION, GAC.
2. NOMINATIONS ARE TO BE MADE BY THREE MEMBERS OF MDD EITHER JOINTLY OR BY INDEPENDENT SUBMISSIONS. NOMINATIONS MUST BE SUPPORTED BY RELEVANT DATA, SUCH AS A CURRICULUM VITAE OR A LETTER OUTLINING THE NOMINEE'S ACCOMPLISHMENTS, ET CETERA.
3. CANDIDATES SHOULD BE RECOGNIZED FOR THEIR SKILL AND STATURE AS PROFESSIONAL ECONOMIC GEOLOGISTS AND ALSO BY THEIR PUBLIC CONTRIBUTIONS TO THE SCIENCE.
4. UNSUCCESSFUL NOMINEES WILL BE AUTOMATICALLY SUBMITTED FOR REVIEW IN THE SUBSEQUENT 2 YEARS, AND WILL THEN BE DROPPED UNLESS RENOMINATED.
5. NOMINATIONS FOR THE MEDAL MAY BE PROPOSED AT ANYTIME BUT TO BE CONSIDERED FOR A PARTICULAR YEAR MUST BE RECEIVED BY THE VICE-CHAIRMAN, MDD NO LATER THAN JANUARY 31, 1984. NOMINATIONS FOR 1984 SHOULD BE SENT TO R.S. HEWTON, BRINCO MINING LIMITED, 704 - 602 WEST HASTINGS STREET, VANCOUVER, B.C. V6B 1P2.

PUBLICATIONS

CJES - PAPERS ON MINERAL DEPOSITS GEOLOGY

CJES IS ONE OF 12 NATIONAL RESEARCH COUNCIL OF CANADA (NRCC) RESEARCH JOURNALS AND, AS SUCH, IS DEDICATED TO THE PUBLICATION OF ORIGINAL PURE AND APPLIED SCIENCE. THE JOURNAL IS DISTRIBUTED TO ALL GAC MEMBERS AS ONE OF THE BENEFITS OF MEMBERSHIP. THE MDD CONSTITUTES THE LARGEST INDIVIDUAL GROUP WITHIN THE GAC, AND SEVERAL OF OUR MEMBERS HAVE INDICATED THAT THEY WISH TO SEE A GREATER PROPORTION OF PAPERS IN CJES WHICH BEAR ON THE MINERAL DEPOSITS FIELD.

IN THE LAST ISSUE OF THE GANGUE, KEN DAWSON ENCOURAGED THE MDD MEMBERSHIP TO GIVE FIRST CONSIDERATION TO THE SUBMISSION OF MANUSCRIPTS ON MINERAL DEPOSITS GEOLOGY TO CJES. IN MY REMARKS TO THOSE ATTENDING THE MDD LUNCHEON AT THE UNIVERSITY OF VICTORIA ON MAY 13TH, 1983, I STATED THAT MEMBERS OF THE MDD EXECUTIVE AND COUNCIL HAD HAD DISCUSSIONS WITH DR. W.G.E. CALDWELL, EDITOR, CJES, AND THERE WAS AGREEMENT THAT CJES IS AN EXCELLENT VEHICLE FOR THE PUBLICATION OF NEW AND ORIGINAL DATA ON MINERAL DEPOSITS GEOLOGY AND THAT SUCH SUBMISSIONS SHOULD BE ENCOURAGED.

THE CONCERNS OF THE MDD MEMBERSHIP ARE ALREADY BEING ADDRESSED. THE JUNE 1983 ISSUE OF CJES CONTAINED A SERIES OF PAPERS ON THE METALLOGENY AND TECTONICS OF THE CANADIAN CORDILLERA, SUBMITTED TO A RECENT SYMPOSIUM ORGANIZED BY KEN DAWSON AND JIM MONGER. SIMILAR, SPECIAL SERIES ARE PLANNED WHICH WILL INCLUDE PAPERS PRESENTED DURING THE MDD SPECIAL SESSIONS ON "GOLD DEPOSITS OF THE CANADIAN CORDILLERA" AND "TIN AND TUNGSTEN DEPOSITS OF THE CANADIAN CORDILLERA" ORGANIZED AS PART OF GAC-MAC 1983. THERE HAVE ALSO BEEN OTHER, INDIVIDUAL, SUBMISSIONS ON A VARIETY OF MINERAL DEPOSIT TOPICS.

THERE ARE SOME THINGS YOU SHOULD KNOW ABOUT CJES. THE JOURNAL'S DISTRIBUTION OVER THE PERIOD 1978-82 HAS AVERAGED OVER 4500 PER ISSUE. THIS DISTRIBUTION HAS SHOWN A STEADY INCREASE DURING THIS PERIOD AND, IN 1982, THE AVERAGE CIRCULATION WAS 4680. THIS READERSHIP IS SPREAD THROUGH 67 COUNTRIES, WITH SUBSCRIPTIONS BEING RECEIVED FROM 26 COUNTRIES IN WESTERN AND EASTERN EUROPE, 18 COUNTRIES IN ASIA AND AUSTRALASIA, 11 COUNTRIES IN AFRICA AND 6 COUNTRIES IN SOUTH AMERICA. IN 1982, CJES PUBLISHED OVER 2400 PAGES. THE AVERAGE PRODUCTION FOR 11 OF THE NRCC JOURNALS FOR WHICH DATA ARE AVAILABLE WAS LESS THAN 1900 PAGES.

TURNAROUND TIMES ARE VERY COMPETITIVE WITH OTHER TOP-QUALITY SCIENTIFIC JOURNALS. BASED ON THE FIRST 30 MANUSCRIPTS ACCEPTED FOR PUBLICATION IN 1983, THE TIME THAT ELAPSED FROM THE RECEIPT OF A MANUSCRIPT TO THE TIME OF ITS ACCEPTANCE AVERAGED 20 WEEKS AND RANGED FROM 5 TO 52 WEEKS. THE ELAPSED TIME FROM RECEIPT TO RETURN OF THE MANUSCRIPT WITH REVIEWS TO THE AUTHOR AVERAGED 10 WEEKS AND RANGED FROM 4 TO 25 WEEKS.

FURTHERMORE, CJES RANKS VERY HIGHLY IN THE INTERNATIONAL LIST OF SCIENTIFIC PERIODICALS IN TERMS OF CITATION INDEX AND IMPACT-FACTOR RATINGS.

THESE FIGURES WILL MEAN MORE TO SOME MDD MEMBERS THAN OTHERS. THOSE WHO ARE FREQUENT CONTRIBUTORS TO THE LITERATURE WILL APPRECIATE THE RELATIVELY SHORT TURNAROUND TIMES AND THE CIRCULATION, SIZE AND DISTRIBUTION STATISTICS. IN ORDER TO MAINTAIN THESE STANDARDS IN THE HIGHLY COMPETITIVE GEOSCIENTIFIC PUBLICATION WORLD, THE CJES EXERCISES VERY HIGH EDITORIAL STANDARDS AND AN AVERAGE OF ONLY 63% OF THE SUBMISSIONS RECEIVED DURING THE FIRST 4 MONTHS OF 1983 HAVE BEEN ACCEPTED FOR PUBLICATION. OF THE BALANCE, 35% HAVE BEEN REJECTED AND 2% WERE WITHDRAWN.

IT IS OBVIOUS THAT CJES PRESENTS AUTHORS WITH A SIGNIFICANT CHALLENGE COUPLED WITH IMPORTANT REWARDS. THE MDD DIRECTORS AND THE EDITOR OF CJES WISH TO ENCOURAGE MDD MEMBERS TO TAKE UP THIS CHALLENGE AND BROADEN AND EVEN STRENGTHEN THE IMPACT OF THE JOURNAL AS AN INTERNATIONAL EARTH SCIENCE PUBLICATION. THE ESSENTIAL REQUIREMENT FOR PAPERS TO CONTAIN NEW AND ORIGINAL DATA AND INTERPRETATIONS IS FUNDAMENTAL. SUCH HAS BEEN A FEATURE OF SOME OF THE BETTER MINERAL DEPOSITS PAPERS IN RECENT YEARS AND, CONSEQUENTLY, THIS CHALLENGE WILL BE READILY SURMOUNTABLE BY MOST AUTHORS.

THE MDD HAS AGREED TO SUGGEST THE NAMES OF TWO EXPERTS IN MINERAL DEPOSITS AS POTENTIAL ADDITIONS TO THE CJES EDITORIAL BOARD. IF ACCEPTED, THE EDITORIAL BOARD THEN WILL CONTAIN A GROUP OF ASSOCIATE EDITORS WITH A BROAD BASE OF EXPERIENCE IN MINERAL DEPOSITS WHO ARE WELL QUALIFIED FOR THEIR EDITORIAL ROLES. AS WITH ALL ASSOCIATE EDITORS, THOSE WITH A SPECIAL KNOWLEDGE OF MINERAL DEPOSITS WILL HAVE THE RESPONSIBILITY OF ENCOURAGING SUBMISSIONS OF HIGH-QUALITY MANUSCRIPTS AND WILL PROVIDE PROSPECTIVE AUTHORS WITH EDITORIAL ADVICE UPON REQUEST. JANUARY ISSUES OF CJES CONTAIN INSTRUCTIONS TO AUTHORS.

HOPEFULLY, YOU WILL CONSIDER THESE IMPORTANT FEATURES OF CJES FAVOURABLY NEXT TIME YOU HAVE A MANUSCRIPT FOR PUBLICATION. THE BENEFITS WILL BE PARTICULARLY APPEALING TO MEMBERS IN UNIVERSITY AND GOVERNMENT DEPARTMENTS, BUT CJES'S GROWING CONTENT

OF MINERAL DEPOSIT PAPERS AND THE GROWING AUDIENCE OF MINERAL DEPOSIT GEOLOGISTS OFFERS A STIMULATING EXPOSURE TO CONTRIBUTORS FROM INDUSTRY AND OTHER RESEARCH ESTABLISHMENTS.

WE INVITE YOUR PARTICIPATION.

J. ALAN COOPE

1984 SPECIAL VOLUME OF ECONOMIC GEOLOGY ON CANADIAN ORE DEPOSITS

CO-EDITORS W.J. WOLFE, A.J. SINCLAIR AND D.F. STRONG REPORT THE FOLLOWING LIST OF POTENTIAL MANUSCRIPTS/AUTHORS

WESTERN CORDILLERA

1. WESTERN MINES HW DEPOSIT, B.C. (VOLCANOGENIC CU-PB-ZN-AG-AU)
R.R. WALKER & GEOLOGICAL STAFF OF WESTMIN RESOURCES LTD.
2. HOWARDS PASS, YUKON (SHALE-HOSTED PB-ZN)
J.M. MORGANTI, PLACER DEVELOPMENT LTD.
3. ANYOX MASSIVE SULPHIDE DEPOSITS, B.C. (THOLEIITE BASALT-HOSTED CU)
R.J. SHARP & M.J. OSATENKO, COMINCO LTD.
4. LOGTUNG DEPOSIT, YUKON (SKARN AND STOCKWORK MO-W)
E.T.C. SPOONER & S. NOBLE, UNIVERSITY OF TORONTO
5. GEOCHEMISTRY OF BARITE-SPHALERITE-GALENA DEPOSITION, CIRQUE DEPOSIT, B.C. (SHALE-HOSTED PB-ZN-BARITE)
C.I. GODWIN & G. GORZYNSKI, UNIVERSITY OF B.C.
6. EQUITY SILVER (SAM GOOSELY) DEPOSIT, B.C. (VOLCANIC-HOSTED EPIGENETIC CU-AU-AG-SB)
J.B. CYR, R. PEASE & T.C. SCHROETER, EQUITY SILVER & B.C. DEPARTMENT OF ENERGY, MINES AND PETROLEUM RESOURCES
7. CANTUNG DEPOSIT, N.W.T. (SKARN W)
A.H. CLARK, QUEEN'S UNIVERSITY
8. KITSALT MOLYBDENUM DEPOSIT, B.C. (PORPHYRY MO)
R.C. STEININGER, AMSELCO EXPLORATION
9. OXYGEN ISOTOPES IN COUNTRY ROCKS & ALTERATION ZONES AT THE SULLIVAN MINE, B.C.
B.E. NESBITT, UNIVERSITY OF ALBERTA
10. GEOLOGY AND GEOCHEMISTRY OF THE CHU CHUA MASSIVE SULPHIDE DEPOSIT, B.C. (VOLCANIC-HOSTED CU-ZN-AU-AG)
P. AGGARWAL & B.E. NESBITT, UNIVERSITY OF ALBERTA
11. FLUID INCLUSION STUDY OF THE BOSS MOUNTAIN MOLYBDENUM DEPOSIT (PORPHYRY MO)
JAMES MACDONALD AND E.T.C. SPOONER, UNIVERSITY OF TORONTO

12. SPHALERITE-PYRITE-PYRRHOTITE RELATIONS AT THE SULLIVAN MINE, B.C.
S.A. KISSIN, LAKEHEAD UNIVERSITY
13. GEOLOGY, MINERALIZATION AND STRUCTURAL SETTING OF THE ERICKSON GOLD MINE, B.C. (VEIN AU)
R. SOMMERVILLE, ERICKSON GOLD MINING CORP.

CENTRAL PLATFORM

14. PINE POINT DEPOSITS, N.W.T. (CARBONATE REEF-HOSTED Pb-Zn)
R.C. ARMSTRONG, D. RHODES AND GEOLOGICAL STAFF OF PINE POINT MINES LTD.
15. NANISIVIK DEPOSIT, N.W.T. (CARBONATE KARST-HOSTED Pb-Zn)
R.A. OLSEN, TRIGG-WOLLETT CNSLTG. LTD., EDMONTON

APPALACHIANS

16. EAST KEMPTVILLE, N.S. TIN DEPOSIT (GREISEN SN)
J.M.G. RICHARDSON, UNIVERSITY OF TORONTO
17. LAKE GEORGE ANTIMONY MINE, N.B.
R.B. SCRATCH, G. WATSON, R. KERRICH, AND R.W. HUTCHINSON, UNIVERSITY OF WESTERN ONTARIO
18. MOUNT PLEASANT DEPOSIT, N.B. (COMPLEX SN,W)
D. SINCLAIR, GEOLOGICAL SURVEY OF CANADA
19. SALTSRING POTASH DEPOSITS, N.B. (SYLVITE-HALITE DOMES IN MISSISSIPPIAN BASINS)
D.E. BARNETT, NEW BRUNSWICK DEP. NATURAL RESOURCES
20. GAYS RIVER Pb-Zn DEPOSIT, N.S. (CARBONATE-HOSTED Pb-Zn)
S. AKANDE AND M. ZENTILLI, DALHOUSIE UNIVERSITY
21. GENESIS OF THE ST. LAWRENCE, NEWFOUNDLAND, FLUOR-SPAR DEPOSITS: EVIDENCE FROM FLUID INCLUSION, GEOCHEMICAL AND ISOTOPIC STUDIES
D.F. STRONG, B.J. FRYER AND D.F. KERRICH, MEMORIAL UNIVERSITY
22. MINERAL CHEMISTRY AND PHYSICAL-CHEMICAL CONTROLS OF THE BUCHANS POLYMETALLIC SULPHIDES
D.F. STRONG & R.P. TAYLOR, MEMORIAL UNIVERSITY

SHORT COURSES

LAST YEAR, MDD MEMBERS WERE ASKED TO RESPOND TO A QUESTIONNAIRE THAT SOUGHT THEIR VIEWS REGARDING THE NEED FOR PROFESSIONAL SHORT COURSES ON VARIOUS TOPICS INVOLVING OUR PROFESSION AS WELL AS SUGGESTED TOPICS THEY WOULD LIKE TO SEE ADDRESSED. FIFTY-SIX REPLIES WERE RECEIVED (ABOUT 8% OF LAST YEAR'S MEMBERSHIP); A SURPRISINGLY HIGH NUMBER IN LIGHT OF RETURNS FROM PREVIOUS QUESTIONNAIRES.

AS A RESULT OF THE INTEREST SHOWN, THE EXECUTIVE IS PRESENTLY ENGAGED IN INVESTIGATING SEVERAL POSSIBILITIES WITH THE VIEW TO SPONSORING SHORT COURSES. IT IS HOPED THAT THE FIRST OF THESE WILL BE OFFERED IN THE FALL OF 1984. AS PLANS BECOME FINALIZED, MEMBERS WILL BE NOTIFIED EITHER IN "THE GANGUE" OR BY SEPARATE CIRCULAR.

FIELD TRIPS

HEMLO DISTRICT

THE TORONTO GEOLOGICAL DISCUSSION GROUP AND THE MDD HELD A FIELD TRIP SEPT. 25-29, 1983 THAT INCLUDED A REGIONAL TOUR OF THE HEMLO DISTRICT LED BY TOM MUIR OF THE OGS, VISITS TO THE HEMLO PROPERTIES OF NORANDA, LONG LAC MINERALS AND TECK, AND AN UNDERGROUND VISIT TO NORANDA'S GECO MINE. J.A. MACDONALD REPORTS THAT THE TRIP WAS WELL RECEIVED. A PROFIT OF APPROXIMATELY \$2500 WAS RECEIVED BY THE MDD.

NEVADA EPITHERMAL AU-AG DEPOSITS

THE MDD NEVADA FIELD TRIP, OCTOBER 12 TO 18, 1983, HOSTED A DIVERSE GROUP OF FORTY-SIX PARTICIPANTS THAT INCLUDED VANCOUVER'S OWN GEORGE CROSS OF NEWS-LETTER FAME. THE GROUP WAS COMPOSED MAINLY OF WESTERN CANADIAN GAC MEMBERS, WITH OUR NEVADA BUREAU OF MINES GUIDE, JOE TINGLEY, AS THE ONLY AMERICAN PARTICIPANT.

THE ACTION-PACKED ITINERARY INCLUDED NINE MINERAL PROPERTY TOURS IN FIVE DAYS, BUT EXCELLENT PLANNING ALLOWED PARTICIPANTS TO ENJOY THE VARIED NEVADA NIGHT LIFE. PROPERTY VISITS INCLUDED: (1) SEVEN CARLIN-TYPE DEPOSITS (CARLIN, MAGGIE CREEK, GOLD QUARRY, NORTHUMBERLAND, SANTA FE, PINSON AND JARRETT CANYON); (2) A VOLCANIC PORPHYRY GOLD (ROUND MOUNTAIN); AND (3) A PORPHYRY SILVER DEPOSIT (CANDELARIA).

KEN DAUGHTRY HELD AN INSPIRING 'ANSWER AND QUESTION' SESSION ON THE SANTA FE DEPOSIT, WITH A VARIETY OF ANSWERS PRESENTED BEFORE THE QUESTIONS WERE ASKED. SWANEY, OUR FRIENDLY BUS DRIVER, PROVIDED EXPERIENCED DIRECTION FOR NIGHT LIFE AND A PERSONAL DEFINITION OF GEOLOGISTS AS THOSE WHO "DRINK BEER ON A BUS, GET OUT AT STOPS AND HAMMER ON ROCKS, THEN QUICKLY GATHER IN GROUPS TO B.S. EACH OTHER". THIS OPINION WAS OBVIOUSLY BASED ON INSUFFICIENT EXPERIENCE.

ALL THE PARTICIPANTS FELT INDEBTED TO THE ORGANIZERS BOB HEWTON OF BRINCO AND JOE TINGLEY OF THE NEVADA BUREAU OF MINES FOR AN EXCELLENT EDUCATIONAL AND SOCIAL EXPERIENCE.

PETER A. CHRISTOPHER

MDD JAPAN FIELD TRIP - SPRING 1985

AN EXCITING FIELD TRIP TO KUROKO, BESSHI, EPI-THERMAL AND HOTSPRING DEPOSITS OF JAPAN IS BEING ORGANIZED AT PRESENT BY DR. S.D. (STEVE) SCOTT OF THE UNIVERSITY OF TORONTO, IN CONJUNCTION WITH TAKEO SATO, THE SEGJ AND JAPANESE MINING COMPANIES. MDD ORGANIZER IS J.P. (JEFF) FRANZEN.

THE TRIP WILL BE RUN IN LATE APRIL TO EARLY MAY OF 1985. ESTIMATED COST FOR THE TEN-DAY TRIP IS \$CAN 2500.00 ROUND TRIP FROM VANCOUVER. PARTICIPANTS FROM ELSEWHERE IN NORTH AMERICA COULD TAKE ADVANTAGE OF GROUP 'ADD-ON' FARES. SOME MAY WISH TO EXTEND THEIR JAPAN VISIT OR TRAVEL TO OTHER POINTS.

FOR FURTHER INFORMATION, REGISTRATION AND TRAVEL ARRANGEMENTS CONTACT JEFF FRANZEN, BILLITON CANADA, #460-601 W. CORDOVA ST., VANCOUVER, B.C., V6B 1G1 TEL(604)669-5535.

MDD SYMPOSIA

MINERAL DEPOSITS OF THE NORTHERN CORDILLERA, WHITEHORSE, DECEMBER 5-7, 1983

THE PROGRAM COMMITTEE, MADE UP OF REPRESENTATIVES OF THE GEOLOGY DIVISION, DIAND, THE MDD AND THE CIM GEOLOGY DIVISION HAS ORGANIZED THREE FULL DAYS OF TECHNICAL SESSIONS ON MINERAL DEPOSITS OF THE NORTHERN CANADIAN CORDILLERA. TWENTY-FIVE PAPERS WILL BE PRESENTED ORALLY IN TWO DAYS OF SESSIONS, AND A THIRD DAY HAS BEEN SET ASIDE FOR POSTER PRESENTATIONS. THE PROCEEDINGS WILL BE PUBLISHED AS A CIM SPECIAL VOLUME.

A FULL SOCIAL PROGRAM INCLUDES TWO RECEPTIONS, TWO HOTSPRINGS MEALS AND FESTIVITIES AT TAKHINI HOTSPRINGS, A BANQUET, THE ANNUAL WHITEHORSE HOCKEY CHALLENGE CUP PLUS CROSS COUNTRY SKIING, SQUASH AND RACQUETBALL.

SEND REGISTRATION FEE OF \$35.00 TO DR. J.A. MORIN, GEOLOGY DIVISION DIAND, 200 RANGE RD., WHITEHORSE, YUKON Y1A 3V1, TEL(403)668-5151.

COMPUTER APPLICATIONS IN MINERAL EXPLORATION, TORONTO JANUARY 10-11, 1984

THE MDD IS JOINTLY SPONSORING A MEETING ON THE ABOVE SUBJECT TO BE HELD IN TORONTO, ONTARIO, CANADA ON JANUARY 10TH-11TH, 1984 AT THE SHERATON CENTRE. THE OTHER SPONSORS ARE THE TORONTO GEOLOGICAL DISCUSSION GROUP, THE TORONTO BRANCH OF THE CANADIAN INSTITUTE OF MINING AND METALLURGY, KECS (CAN. EXPLORATION GEOPHYSICAL SOCIETY) AND THE ASSOCIATION OF EXPLORATION GEOCHEMISTS.

A SECOND CIRCULAR HAS BEEN MAILED OUT TO ALL MDD MEMBERS. IF YOU DID NOT RECEIVE IT, CONTACT:

THE ORGANIZING COMMITTEE,
COMPUTER APPLICATIONS IN MINERAL
EXPLORATION, 1984,
c/o SAMIM CANADA LTD.,
SU. 2116, 130 ADELAIDE ST. W.,
TORONTO, ONTARIO, CANADA M5H 3P5

LONDON '84

TWO SPECIAL SESSIONS BEING CO-SPONSORED BY THE GAC/MDD AT THE JOINT ANNUAL MEETING OF THE GAC/MAC/CGU, MAY 13-16, 1984 ARE:

- A) "THE ROLE OF ORGANISMS AND ORGANIC MATTER IN ORE DEPOSITION"
ORGANIZERS R.W. MACQUEEN AND J.A. COOPE REPORT NINE AUTHORS HAVE BEEN INVITED TO PRESENT PAPERS.
- B) "GOLD IN IRON-FORMATION SEQUENCES"
ORGANIZERS ARE R.J. SHEGELSKI AND J.A. MACDONALD.

PUBLICATION OF THE PROCEEDINGS OF BOTH SPECIAL SESSIONS THROUGH THE GAC IS BEING INVESTIGATED.

IF MEMBERS CAN IDENTIFY A TOPIC THAT MAY SERVE AS THE FOCUS FOR A SPECIAL SESSION AT THE ANNUAL MEETING IN FREDERICKTON, MAY 1985, PLEASE CONTACT ONE OF THE MDD EXECUTIVE OR PRESENT YOUR IDEAS TO DR. R.W. HODDER, OUR CURRENT PROGRAM CHAIRMAN, FOR HIS CONSIDERATION.

INTERNATIONAL SYMPOSIUM ON SEDIMENTARY COPPER DEPOSITS, TORONTO, OCTOBER, 1985

THE MINERAL DEPOSITS DIVISION OF THE GEOLOGICAL ASSOCIATION OF CANADA AND THE UNIVERSITY OF TORONTO, ARE IN THE PRELIMINARY STAGES OF PLANNING A SYMPOSIUM DEVOTED TO THE REVIEW OF THE GEOLOGICAL ENVIRONMENT, THE GENESIS AND EXPLORATION SIGNATURES OF COPPER DEPOSITS IN SEDIMENTARY ROCKS TO BE HELD IN TORONTO, OCTOBER 20-23, 1985.

THE SYMPOSIUM WILL BE INTERNATIONAL IN SCOPE INVOLVING RECOGNIZED SCIENTISTS FROM SEVERAL COUNTRIES WHO HAVE WORKED ON THE WORLD'S MOST IMPORTANT SEDIMENTARY COPPER DEPOSITS IN EASTERN EUROPE, AFRICA, AUSTRALIA, CHINA, RUSSIA AND NORTH AMERICA. NOT ONLY WILL THE MEETING BRING TOGETHER EXPERTS FROM WIDELY

SEPARATED MINING AREAS BUT ALSO WILL INTEGRATE PRESENTATIONS ON FLUID MIGRATION AND MOVEMENT OF METALS THROUGH ROCKS WITH MORE TRADITIONAL GEOLOGICAL DESCRIPTIONS AND INTERPRETATIONS.

TECHNICAL SESSIONS WILL FOCUS ON THE EVIDENCE FOR THE CONTRASTING HYPOTHESES BASED ON DIAGENETIC AND EPIGENETIC PROCESSES AND THE IMPORTANCE OF STRUCTURAL CONTROLS AND PROCESSES OF FLUID MIGRATION IN THE LOCATION AND CONCENTRATION OF THIS FAMILY OF DEPOSITS. ATTENTION WILL BE DIRECTED TO THE IDENTIFICATION OF CRITERIA FOR EFFECTIVE SEDIMENTARY COPPER EXPLORATION. ONE FULL DAY OF SESSIONS IS PLANNED FOR EACH OF THE FOLLOWING:

1. DEPOSITS IN NORTH AMERICA, AFRICA, RUSSIA, AUSTRALIA, CHINA;
2. DEPOSITS IN POLAND, EAST GERMANY, WEST GERMANY;
3. FLUID MIGRATION, TECTONIC SETTING, DEPOSIT MODELS, EXPLORATION GUIDELINES, SUMMARY

SPACE FOR POSTER SESSIONS WILL BE AVAILABLE THROUGHOUT THE SYMPOSIUM. DELEGATIONS FROM DIFFERENT COUNTRIES WILL BE ENCOURAGED TO ARRANGE DISPLAYS PRESENTING BASIC DATA ON STRATIGRAPHY, STRUCTURE, DIMENSIONS AND PRODUCTION FROM DEPOSITS IN DIFFERENT GEOGRAPHICAL LOCATIONS. ADDITIONAL SPACE WILL BE AVAILABLE FOR DISPLAYS OF SELECTED CURRENT RESEARCH.

CO-CHAIRMAN OF THE SYMPOSIUM ARE DR. J. ALAN COOPE OF NEWMONT EXPLORATION OF CANADA, LTD., (REPRESENTING THE MINERAL DEPOSITS DIVISION OF THE GAC) AND PROFESSOR A.J. NALDRETT OF THE UNIVERSITY OF TORONTO (REPRESENTING THE UNIVERSITY OF TORONTO). THE INITIAL ORGANIZING COMMITTEE ALSO INCLUDES PROFESSOR A.C. BROWN OF ECOLE POLYTECHNIQUE, MR. C. JOWETT OF THE UNIVERSITY OF TORONTO AND DR. R.V. KIRKHAM OF THE GEOLOGICAL SURVEY OF CANADA.

THIRTY-FIVE PAPERS VARYING IN LENGTH BETWEEN 20 AND 30 MINUTES WILL BE ACCOMMODATED IN 15 HOURS OF TECHNICAL SESSIONS. APPROXIMATELY 60% OF THE PRESENTATIONS WILL BE BY INVITED SPEAKERS, THE BALANCE TO BE CHOSEN FROM SUBMITTED ABSTRACTS. AUTHORS WILL BE ASKED TO SUPPLY MANUSCRIPTS AT THE TIME OF THE SYMPOSIUM AND PAPERS WILL BE PUBLISHED IN A SYMPOSIUM VOLUME. INQUIRIES SHOULD BE DIRECTED TO EITHER DR. COOPE OR DR. NALDRETT. A FIRST CIRCULAR WILL BE AVAILABLE IN EARLY JANUARY, 1984.

ANNOUNCEMENTS

CIM GEOLOGY DIVISION CALENDAR 1984-85

APRIL 15-19/84 ANNUAL GENERAL MEETING - OTTAWA
EMPHASIS ON GEOCHEMISTRY
CHAIRMAN: DR. W. PETRUK

APRIL 19-22/84 "TILL TOMORROW": OTTAWA AND
KIRKLAND LAKE
SYMPOSIUM AND FIELD WORKSHOP ON
METHODS OF DEEP TILL SAMPLING
CHAIRMAN: DR. C. GLEESON

NOV. 12-13/84 "GEOPHYSICAL EXPLORATION FOR GOLD
DEPOSITS" - VAL D'OR
SYMPOSIUM CHAIRMAN: DR. E. GAUCHER

SEPT. 2-6/84 "ORE DEPOSITS OF THE CHIBOUGAMAU
DISTRICT" - CHIBOUGAMAU
SYMPOSIUM CHAIRMAN: DR. J. GUHA

APRIL 21-24/85 ANNUAL GENERAL MEETING - VANCOUVER
EMPHASIS ON GEOPHYSICS
CHAIRMAN: DR. W. PETRUK

APRIL 25-26/85 "CORDILLERAN PORPHYRY DEPOSITS"
SYMPOSIUM CHAIRMAN: DR. A. PANTALEYEV

SEPT. 22-28/85 "GRANITE-RELATED MINERAL DEPOSITS" -
FREDERICTON
FIELD CONFERENCE CHAIRMAN:
DR. R. TAYLOR

AEG REGIONAL SYMPOSIUM, RENO, NEVADA,
MAR. 25-29, 1984

SYMPOSIUM AND FIELD TRIPS: "ORE DEPOSITS OF THE
NORTH AMERICAN CORDILLERA". FOR INFORMATION CONTACT
SYMPOSIUM CHAIRMAN, CHESTER E. NICHOLS, P.O. BOX
9777, RENO, NEVADA 89507.

GAC HEADQUARTERS MOVED TO ST. JOHN'S

PLEASE ADDRESS ALL INQUIRIES AND CORRESPONDENCE TO:
THE DEPARTMENT OF EARTH SCIENCES
MEMORIAL UNIVERSITY
ST. JOHN'S, NFLD. A1B 3X5
TEL.(709) 737-7660

PRESIDENT: C.R. BARNES, MEMORIAL UNIVERSITY
TEL.(709) 737-8142

VICE PRESIDENT: D.A. ST. ONGE
GEOLOGICAL SURVEY OF CANADA
601 BOOTH STREET
OTTAWA, ONTARIO K1A 0E8
TEL.(613) 593-6085

SECRETARY- J.G. MALPAS, MEMORIAL UNIVERSITY
TREASURER: TEL.(709)737-7660

ASSISTANT MRS. CYNTHIA PITTS
SECRETARY: MEMORIAL UNIVERSITY
TEL. (709) 737-7660

PUBLICATIONS AVAILABLE

GAC SPECIAL PAPER 25: 'PRECAMBRIAN SULPHIDE DEPOSITS'
H.S. ROBINSON MEMORIAL VOLUME
EDITORS: R.W. HUTCHINSON, C.D. SPENCE, J.M. FRANKLIN

THIS VOLUME IS A MUST FOR ALL GEOLOGISTS WORKING ON SULPHIDE DEPOSITS IN NORTH AMERICA. THE 791 PAGE PUBLICATION COMPRISES CURRENT RESEARCH BY MANY PROMINENT SCIENTISTS. THE 23 PAPERS INCLUDE MAPS, PHOTOGRAPHS AND GRAPHS ALL BEAUTIFULLY REPRODUCED AND BOUND IN A HANDSOME HARD COVER.

DON'T DELAY, ORDER TODAY!

ORDER FROM: G.A.C. PUBLICATION DIVISION
c/o BUSINESS & ECONOMIC SERVICE LIMITED
111 PETER STREET, SUITE 509
TORONTO, ONTARIO M5V 2H1

PRICE:

GAC MEMBERS \$47+\$2.50 POSTAGE & HANDLING=\$49.50 TOTAL
OTHERS \$57+\$2.50 POSTAGE & HANDLING=\$59.50 TOTAL

PLEASE MAKE CHEQUE OR MONEY ORDER PAYABLE TO THE GEOLOGICAL ASSOCIATION OF CANADA. PAYMENT MUST ACCOMPANY ORDER. ALL SALES FINAL - NO REFUNDS OR EXCHANGES.

GEOLOGICAL ASSOCIATION OF CANADA SHORT COURSE NOTES,
VOLUME 2: "PYROCLASTIC VOLCANISM AND DEPOSITS OF
CENOZOIC INTERMEDIATE TO FELSIC VOLCANIC
ISLANDS WITH IMPLICATIONS FOR PRECAMBRIAN
GREENSTONE-BELT VOLCANOES"

THE 365 PAGE VOLUME INCLUDES THIRTEEN PAPERS. THE VOLUME CAN BE OBTAINED FOR \$20 PLUS \$2.50 HANDLING AND POSTAGE FROM THE GAC PUBLICATION DIVISION, AT THE ADDRESS ABOVE.

CENTRE FOR PRECAMBRIAN STUDIES 1982 ANNUAL REPORT

THE 154 PAGE REPORT INCLUDES 11 PAPERS, PLUS LISTS OF THESES COMPLETED AND IN PROGRESS IN 1982. THE REPORT MAY BE ORDERED BY SENDING \$5.00 PER COPY TO:

CENTRE FOR PRECAMBRIAN STUDIES
DEPARTMENT OF EARTH SCIENCES
UNIVERSITY OF MANITOBA
WINNIPEG, MANITOBA R3T 2N2

GEOLOGY SEMINARS

UNIVERSITY OF BRITISH COLUMBIA, ROOM 330A, GEOL.
SCIENCES BLDG., 12:30 P.M.

THURSDAY, "PALEOMAGNETIC AND CLIMATIC RECORD FROM
NOVEMBER 24: TWO LONG BOREHOLES IN THE GREAT
HUNGARIAN PLAIN"

DR. H.B.S. COOKE, PROF. EMERITUS, DEPT.
OF GEOLOGY, DALHOUSIE UNIVERSITY

THURSDAY, "EVOLUTION OF A LATE PRECAMBRIAN RIFT
DECEMBER 1 MARGIN, WESTERN OGILVIE MOUNTAINS, Y.T."
DR. R.I. THOMPSON, GEOLOGICAL SURVEY OF
CANADA CORDILLERAN DIVISION, VANCOUVER

THURSDAY, "OXIC AND ANOXIC DIAGENESIS OF DITER-
DECEMBER 8 PENES IN LACUSTRINE SEDIMENTS"
DR. M.A. BARNES, DEPT. OF GEOL. SCIENCES
UNIVERSITY OF BRITISH COLUMBIA

McMASTER UNIVERSITY, ROOM SSC-102, 4:00 P.M.

TUESDAY "VOLCANOES AND THEIR ROOTS"
NOVEMBER 22 DR. HANS ULRICH SCHMINCKE, UNIVERSITY OF
COCHUM, FEDERAL REPUBLIC OF GERMANY

ACKNOWLEDGEMENT

THE GANGUE GRATEFULLY ACKNOWLEDGES ASSISTANCE IN
MAILING NO. 17 BY THE GEOLOGY GRADUATE STUDENTS
ASSOCIATION OF U.B.C.