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SCIENCE INSTITUTE  
OF THE NORTHWEST TERRITORIES

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For more information you are welcome to contact:

Science Institute of the Northwest Territories  
Box 1617  
Yellowknife, NT  
X1A 2P2







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Mr. Parker came north in 1949 as a geologist. He became active in Territorial Administration and retired as Commissioner of the N.W.T. in 1989. He is also chairman of the Arctic Institute of North America and a member of the Board of the NWT Power Corporation. In 1986 Mr. Parker was made an Officer of the Order of Canada and a Member of the Aboriginal Order of Canada.

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August 1991







## STAFF

DOUGLAS HEYLAND, EXECUTIVE DIRECTOR, SCIENCE ADVISOR  
VACANT, EXECUTIVE SECRETARY

### SCIENCE ADVISORY SERVICES

Mrs. Anna Buss, Science Administrator

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Dr. S.Y. (Joe) Ahmad, Manager

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Headquarters staff: Left to Right – Gwen Cochrane, Anna Buss, Elaine Riddell, Yvonne Leonardis, Jane McMullen, Craig d'Entremont, Doug Heyland, Joe Ahmad, Dave Sherstone. September 1991.



Iqaluit Research Centre Staff: Left to Right – Bob Longworth, Panik Lynn Cousins, Mary Anne Issakiark, Eric Coleman. Summer 1991.

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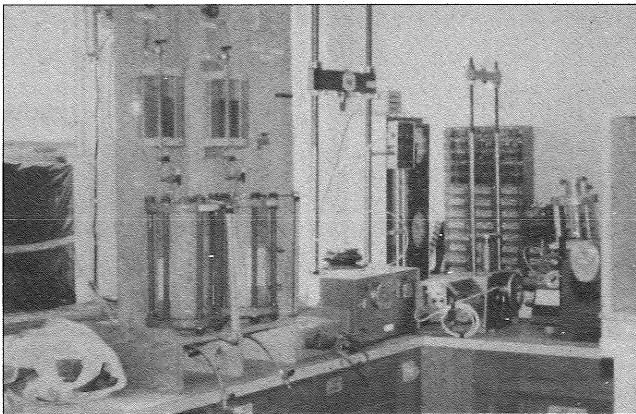




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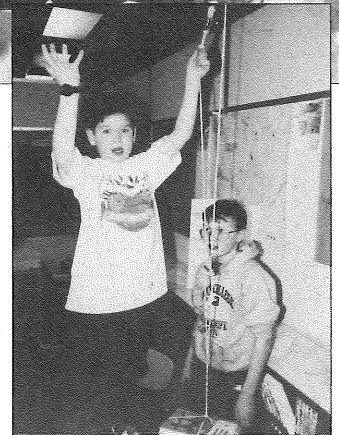


*Researchers are supported with laboratory facilities and logistical support through our three Research Centres.*



*Science is shared ... among all our residents.*

To achieve the Institute's mandate of fostering science and technology, four complementary programs have been developed as the Institute has matured: Science Advisory Services, Scientific Services, Information/Education and Technology Development (including the N.W.T. component of the Industrial Research Assistance Program of the National Research Council of Canada).



The *Science Advisory Services* program issues licenses for research conducted within the N.W.T. Through this registration process, information is shared amongst researchers and the northern populace. Program involvement in cooperative groups, such as the federally funded National Health Research Development Program North of 60 Initiative, and a Traditional Knowledge Working Group, helps to ensure that northern research needs are met.

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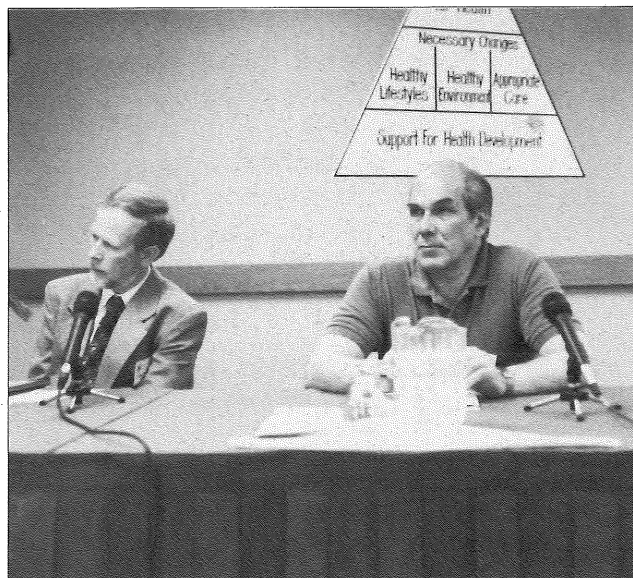
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The Institute assists in developing a science culture within the northern society. Through projects of the *Information/Education* program, youth and the general public increase their awareness and knowledge of modern and traditional science of particular significance to Northerners. Producing science and technology educational resource materials, coordinating Cross-cultural Science Camps for children and promoting national science education initiatives, such as science fairs, are some of the program's activities.

The *Technology Development Program* (TDP), organized in late 1990, brings viable technology to northern businesses and assists northern industry to develop unique technologies for the domestic and international marketplace. Initial research has led to five technological foci: alternative energies, environment, food production, engineering/building science and traditional knowledge database/artificial intelligence.

The *Industrial Research Assistance Program* (IRAP) of the National Research Council has been administered in the N.W.T. by the Institute since 1989. The IRAP Industrial Technology Advisor and the Manager of the TDP work closely to integrate the program.



*Northern research needs are identified.*

A Construction Research Advisor will be hired in 1992. This position will add a third dimension to this important initiative. The Program is also entering into cooperative projects with agencies such as Energy, Mines and Resources Canada.

The Institute is expanding its scope and its resources. All programs are striving to coordinate and facilitate science in the North. Cooperation with many groups is the cornerstone of our successful programs.

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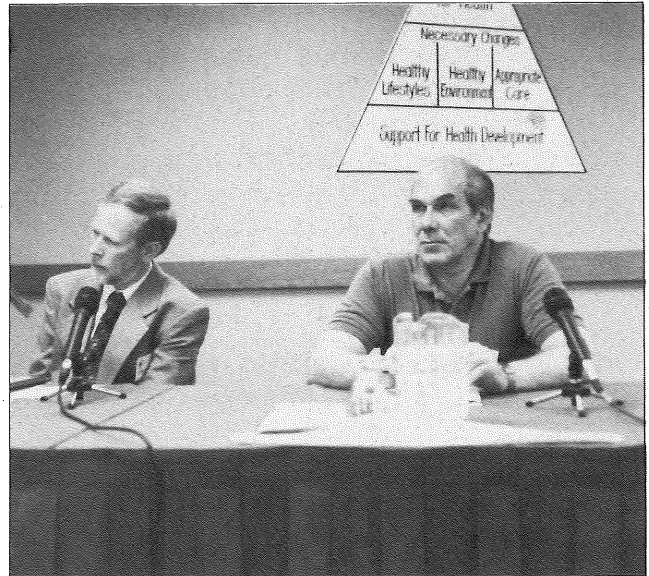
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Requests for general information about the Research Centres may be sent to the Science Institute in Yellowknife. Researchers with specific questions on support, availability of equipment, accommodation, office and laboratory space should contact the Research Centre Managers directly.

Because the Research Centres are well used we encourage potential users of any of these facilities to contact the relevant Centre well in advance. It may be necessary to refuse support during the summer.

The Science Institute controls three facilities located at Inuvik, Igloolik and Iqaluit (Frobisher Bay). These Centres have provided significant support to researchers operating in the Mackenzie Delta, Foxt Basin and Southern Baffin Island regions over the past twenty-five years.

The Research Centres assist government, university and industrial scientists, as well as other researchers. The Centres are available to anyone conducting genuine research, regardless of the sponsoring agency.

### INUVIK RESEARCH CENTRE

The Inuvik Research Centre has operated since 1964. It is ideally located to support researchers working in the northwestern N.W.T. and northern Yukon. To date more than 1300 research projects, involving more than 700 researchers, have been conducted using the Inuvik facilities and equipment. The Centre operates year-round.

The Inuvik Research Centre provides office space and equipment, a dark room, a drafting room, a research library and accommodation for up to 24 researchers. In addition, the Centre is equipped with storage and freezer space, field equipment including snowmobiles and toboggans, boats and motors, tents, radios, sleeping bags, firearms and other camping accessories.



*Inuvik is the headquarters for the Mackenzie Delta region. Inuvik has a population of 2,800. It has road access to the South via the Dempster Highway. Currently Canadian North and Northwest Territorial Airways service Inuvik.*

For more information contact:  
The Manager  
Inuvik Research Centre  
Box 1430  
Inuvik, N.W.T.  
X0E 0T0  
Phone (403) 979-3838  
FAX (403) 979-3570



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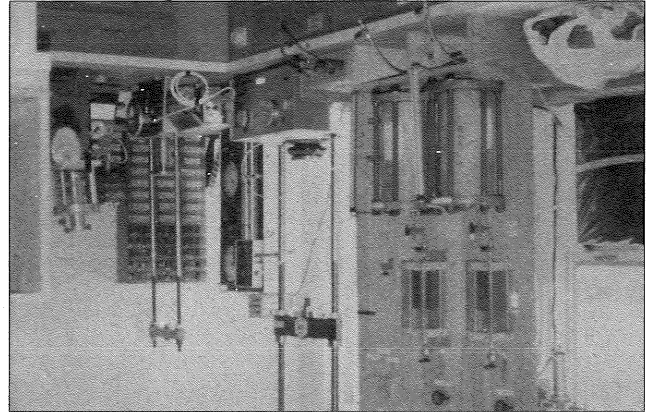
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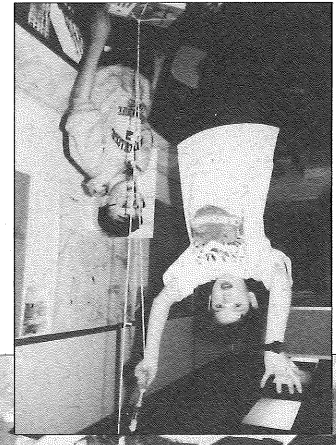
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## השקט - מחקר על השפעת רעש על תדירות הלב



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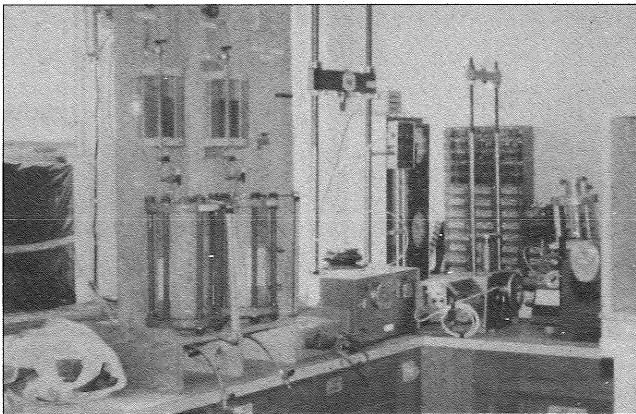




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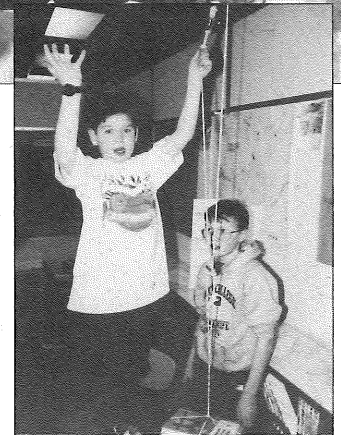


*Researchers are supported with laboratory facilities and logistical support through our three Research Centres.*



*Science is shared ... among all our residents.*

To achieve the Institute's mandate of fostering science and technology, four complementary programs have been developed as the Institute has matured: Science Advisory Services, Scientific Services, Information/Education and Technology Development (including the N.W.T. component of the Industrial Research Assistance Program of the National Research Council of Canada).



The *Science Advisory Services* program issues licenses for research conducted within the N.W.T. Through this registration process, information is shared amongst researchers and the northern populace. Program involvement in cooperative groups, such as the federally funded National Health Research Development Program North of 60 Initiative, and a Traditional Knowledge Working Group, helps to ensure that northern research needs are met.



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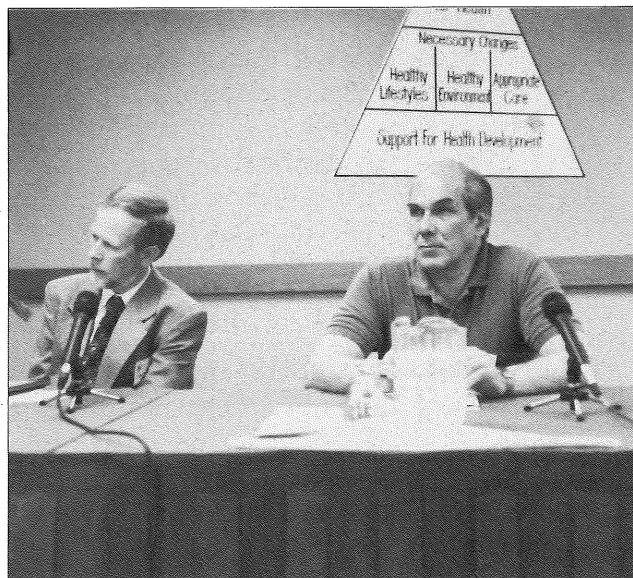
## INTRODUCING THE SCIENCE INSTITUTE OF THE NORTHWEST TERRITORIES

The *Scientific Services* program offers logistical support to researchers from all parts of the globe while in the field in the Northwest Territories. Since 1988 three research centres, formerly operated by the Department of Indian and Northern Affairs, have been operated on a year-round basis in Igloolik, in Foxe Basin, Iqaluit, in the south Baffin, and Inuvik, in the Mackenzie Delta Region.

The Institute assists in developing a science culture within the northern society. Through projects of the *Information/Education* program, youth and the general public increase their awareness and knowledge of modern and traditional science of particular significance to Northerners. Producing science and technology educational resource materials, coordinating Cross-cultural Science Camps for children and promoting national science education initiatives, such as science fairs, are some of the program's activities.

The *Technology Development Program* (TDP), organized in late 1990, brings viable technology to northern businesses and assists northern industry to develop unique technologies for the domestic and international marketplace. Initial research has led to five technological foci: alternative energies, environment, food production, engineering/building science and traditional knowledge database/artificial intelligence.

The *Industrial Research Assistance Program* (IRAP) of the National Research Council has been administered in the N.W.T. by the Institute since 1989. The IRAP Industrial Technology Advisor and the Manager of the TDP work closely to integrate the program.



*Northern research needs are identified.*

A Construction Research Advisor will be hired in 1992. This position will add a third dimension to this important initiative. The Program is also entering into cooperative projects with agencies such as Energy, Mines and Resources Canada.

The Institute is expanding its scope and its resources. All programs are striving to coordinate and facilitate science in the North. Cooperation with many groups is the cornerstone of our successful programs.



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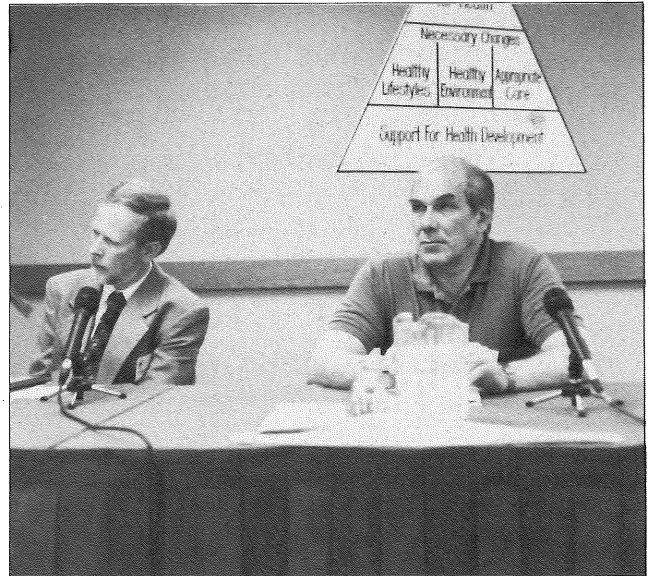
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SCIENCE INSTITUTE  
OF THE NORTHWEST TERRITORIES

## SINT RESEARCH CENTRES: SUPPORT FOR RESEARCHERS

Researchers must obtain a Scientific Research Licence from SINT before they receive support from a Research Centre

Requests for general information about the Research Centres may be sent to the Science Institute in Yellowknife. Researchers with specific questions on support, availability of equipment, accommodation, office and laboratory space should contact the Research Centre Managers directly.

Because the Research Centres are well used we encourage potential users of any of these facilities to contact the relevant Centre well in advance. It may be necessary to refuse support during the summer.

The Science Institute controls three facilities located at Inuvik, Igloolik and Iqaluit (Frobisher Bay). These Centres have provided significant support to researchers operating in the Mackenzie Delta, Foxt Basin and Southern Baffin Island regions over the past twenty-five years.

The Research Centres assist government, university and industrial scientists, as well as other researchers. The Centres are available to anyone conducting genuine research, regardless of the sponsoring agency.

### INUVIK RESEARCH CENTRE

The Inuvik Research Centre has operated since 1964. It is ideally located to support researchers working in the northwestern N.W.T. and northern Yukon. To date more than 1300 research projects, involving more than 700 researchers, have been conducted using the Inuvik facilities and equipment. The Centre operates year-round.

The Inuvik Research Centre provides office space and equipment, a dark room, a drafting room, a research library and accommodation for up to 24 researchers. In addition, the Centre is equipped with storage and freezer space, field equipment including snowmobiles and toboggans, boats and motors, tents, radios, sleeping bags, firearms and other camping accessories.



*Inuvik is the headquarters for the Mackenzie Delta region. Inuvik has a population of 2,800. It has road access to the South via the Dempster Highway. Currently Canadian North and Northwest Territorial Airways service Inuvik.*

For more information contact:  
The Manager  
Inuvik Research Centre  
Box 1430  
Inuvik, N.W.T.  
X0E 0T0  
Phone (403) 979-3838  
FAX (403) 979-3570



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Mr. Bob Hanson completed his term of office as Member and Vice-Chairman of the Board on March 31, 1991. During his term in office, Mr. Hanson brought a businessman's point of view to the undertakings of the Institute. We are grateful for the time which he devoted to the Board and wish him every success.

Ms. Sally Kusugak, Rankin Inlet, also completed her term on the Board. Ms. Kusugak, active within a number of community organizations including the Inuit Silattuqsarvingat and the Inuit Cultural Institute, was a helpful contributor to discussions and we wish her good luck in her endeavours.

Mr. George Hobson, Manotick, Ontario, was appointed to the Board on October 2 and will serve until March 31, 1993. Mr. Hobson, a geophysicist, recently retired after a distinguished career with the Federal Public Service. Paramount among his many accomplishments was the 17 years (1972-1989) during which he was Director of the Polar Continental Shelf Project. It was a pleasure to welcome Mr. Hobson to the Board, where he will be able to bring his years of science and northern experience to the Institute's programs.

Mr. John Jamieson was appointed to the Board on October 17 and will serve until March 31, 1993. Mr. Jamieson is a teacher with many years

of experience, including posts in Sanikiluaq, Igloolik and Iqaluit. He currently teaches in Wrigley. Mr. Jamieson has impressive credentials, including the Marshall McLuhan Award presented in recognition of his development of cultural enhancement projects in Sanikiluaq and Iqaluit. Mr. Jamieson has special interests in traditional knowledge and the relationship between traditional and modern scientific methods. His contributions to the Institute in this and other areas will be significant.

#### COMMITTEE PARTICIPATION

The Executive Director participates in a number of territorial, national and international committees. As Science Advisor to the Government of the NWT, he accompanies the Territorial Minister responsible for scientific matters to meetings of the Council of Science and Technology Ministers, and collaborates with colleagues across Canada on related committees. As part of the task, Mr. Heyland continues to participate in preparing the National Action Plan for Science and Technology. The purpose of the Plan is to work towards integrating all sectors of the economy to advance Canada's capabilities in science and technology. Ministers are expected to approve the Plan in June of 1991.

Late in the year the Honourable Bernard Valcourt, Minister of Fisheries and Oceans, invited the Science Institute to assume chairmanship of an *ad hoc* committee to investigate the status of the beluga in southeast Baffin. The invitation came in response to a request by the Honourable Dennis Patterson, Member of the Territorial Legislature for Iqaluit and Government Leader, to Mr. Valcourt because of a conflict between beluga hunters in southeast Baffin and the Department of Fisheries and Oceans (DFO). The dispute arose after DFO imposed a quota of five beluga on each of the communities of Lake Harbour, Iqaluit and Pangnirtung

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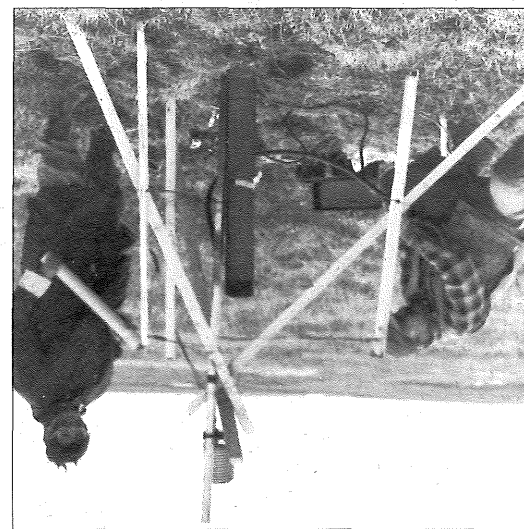
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Dr. Ross Mackay signature and name in Inuktitut.

John H. Parker signature and name in Inuktitut.

Vertical column of Inuktitut text on the left side of the page.



Vertical column of Inuktitut text at the bottom left of the page.

Block of Inuktitut text in the upper middle section.

Block of Inuktitut text in the middle section.

Block of Inuktitut text in the lower middle section.

Block of Inuktitut text at the bottom middle of the page.

English text paragraph discussing the introduction of a quota on beluga in the region and the controversy it caused.

English text paragraph describing the composition of the committee and the spirit of cooperation during the meetings.

English text paragraph mentioning Mr. Heyland's involvement in various advisory committees.

English text paragraph about the Studies Advisory Committee and the Advisory Committee for the Canadian Circumpolar Institute.

English text paragraph emphasizing the importance of collaboration and cooperation in the North.

English text paragraph discussing the Science Institute of the Northwest Territories and its role in providing information and expertise.

English text paragraph stating that the current approach is a winning formula.

Sincerely, John H. Parker signature.

John H. Parker OC, P. Eng. Chairman, Board of Directors

J. Douglas Heyland signature and name as Executive Director.



Dr. Kaye MacInnes and Dr. Ross Mackay cooperating in the field to record permafrost data.



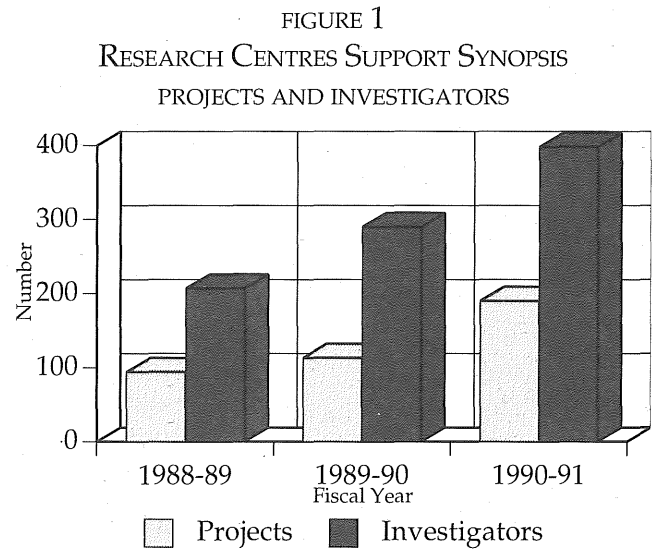




SCIENTIFIC SERVICES

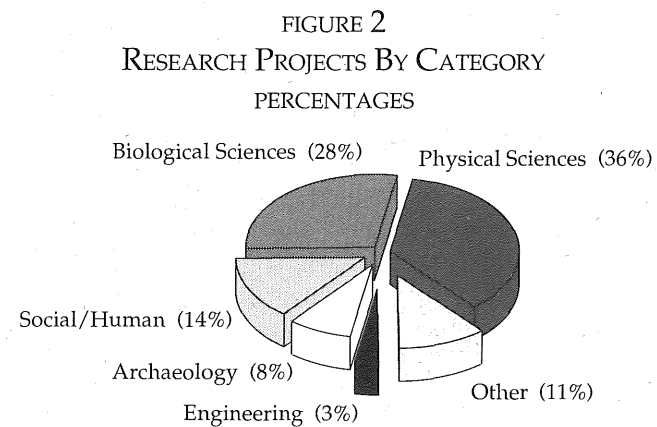
Many researchers conducting field work in the Northwest Territories count on logistical support from one or more of the Science Institute's three research centres in Igloolik, Iqaluit and Inuvik. These Centres are coordinated through a Directorate located at headquarters in Yellowknife headed by Mr. David Sherstone, Director of Scientific Services. The Directorate ensures that managerial efforts complement each other, financial and administrative tasks are facilitated and that the high standards of the Science Institute are achieved in all locales. Through camaraderie in the field, assistance at the three Research Centres and the provision of information and guidance from Scientific Services and the Science Advisory Services programs, the network of Northern researchers is strengthened.

Use of the three Research Centres increased again this year. From April of 1990 through March of 1991, 181 projects were supported, an



Fiscal Years 1988-89 to 1990-91

increase of about 50% over 1989-90. This growth trend has continued since the Science Institute took over the three Centres from Indian and Northern Affairs Canada in 1988 (Figure 1). The Iqaluit and Inuvik Centres were filled to capacity during most of the summer field season.



Research projects spanned a variety of disciplines (Figure 2, Table 1) There was a significant increase in physical science projects supported by the Centres. Activity increased to the levels of earlier years. A decrease in oil and gas exploration, attributed to the drop in petroleum prices, and the lack of land claim settlements led to a reduction in geological studies. There has been, however, an increase in the number of environmental studies designed to gather baseline data which can be used for future comparative analyses.

It is encouraging that the number of Canadian university researchers using the Centres has increased following a decline throughout most of the 1980s. Circumpolar cooperation was evident in the number of researchers from other countries using the Centres. Scientists came from the U.S.S.R., the United States, Denmark, Japan,

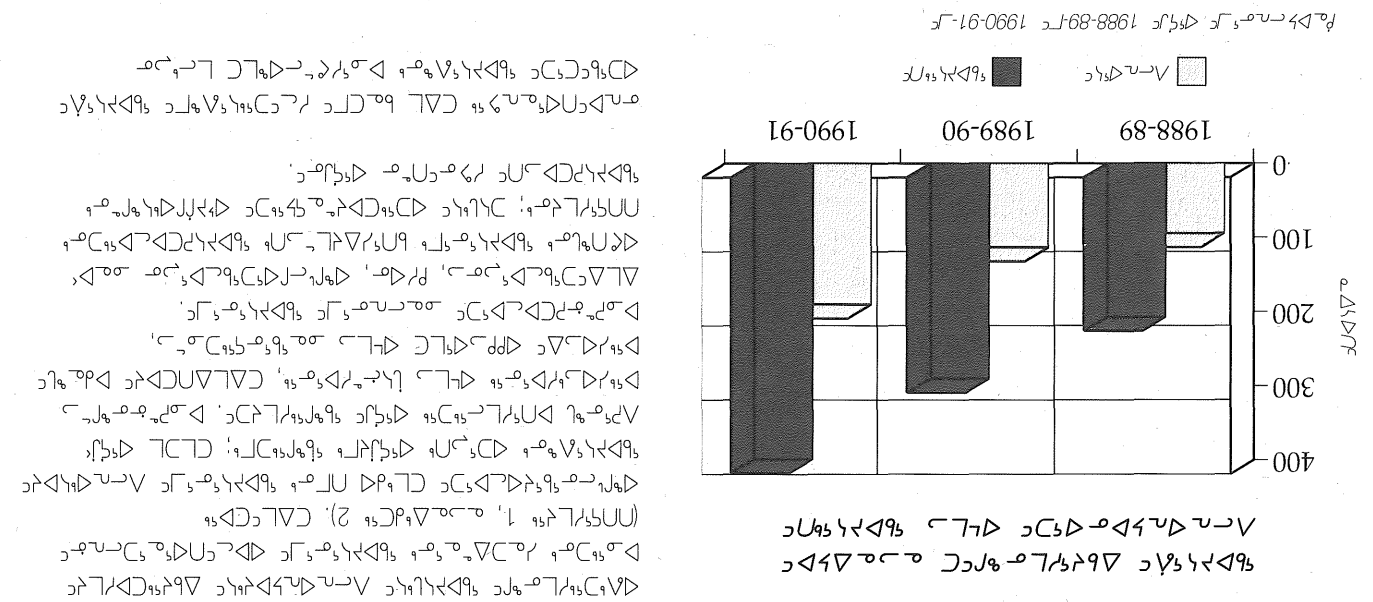
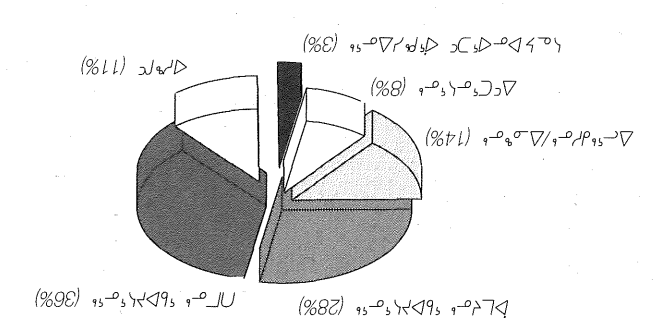


FIGURE 2 RESEARCH PROJECTS BY CATEGORY PERCENTAGES



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west Territories, Parks Canada, the Departments of Economic Development and Tourism and Renewable Resources, Government of the Northwest Territories.

To facilitate the transfer of technical information to an interested general public, the Scientific Services Directorate initiated a series of scientific reports for general readership. Researchers are encouraged to contribute papers for the series. The first report, published in January, included two papers entitled, "Guidebook to Geological Localities in the Vicinity of Inuvik, N.W.T." by Dr. L. Dyke and "Pingos of the Western Arctic Coast" by Dr. J.R. Mackay.



Laura Lynn McCulloch, Summer Student Iqaluit Research Centre, talks to researchers in the field.

STAFF CHANGES

Joining the Scientific Services team this year are Ms. Mabel Kudlak, Clerk/Secretary at the Inuvik Research Centre and Ms. Panik Lynn Cousins, Technician, at the Iqaluit Research Centre. Mr. George Qulaut, Operations Manager, Igloolik, returned from a one year personal development leave-of-absence. During his absence, Ms. Leah Otak acted as Operations Manager after completing training under the Northern Careers Program.

Ms. Laura Lynn McCulloch, a student in the Environmental Technology Program (ETP) of Arctic College, acted as Operations Assistant during the summer in Iqaluit. Mr. Eric Coleman, also an ETP student, was hired on a part-time basis in Iqaluit to assist during the winter.

Mr. Paul Irngaut resigned as Research Centre Technician in Iqaluit, to take a position with CBC

North in September 1990. We thank Paul for his service to the Institute and for his efforts in promoting Science in Inuktitut and wish him success.

THE RESEARCH CENTRES

Managers, Bob Longworth, Gary White and John MacDonald, of the Iqaluit, Inuvik and Igloolik Research Centres, actively support science in their respective communities. Staff at the Centres regularly collaborated with educators, researchers, government and non-government agencies and community groups to promote science awareness in the Northwest Territories and to inform other Canadians about science in the North.

A variety of audiences including northern school children, university and college students and professional organizations enjoyed presentations throughout the year. These included workshops, tours, talks and displays on topics such as geology, science careers, northern research and the Research Centre facilities. Visiting researchers were encouraged to discuss their research through science clubs, such as the Northwinds Science Club in Inuvik, and community talks or through the news media.

In addition to hearing about northern science, budding scientists were given the opportunity to try their own hand at research. Research Centre personnel assisted with learning outside of the classroom by:

- coordinating a Grade 10 Archaeology Field Course near Igloolik,

Environmental Technology

Environmental Technology... The Western Arctic Coast Dr. J.R. Mackay... Inuvik, N.W.T. Dr. L. Dyke... Guidebook to Geological Localities in the Vicinity of Inuvik, N.W.T. by Dr. L. Dyke and "Pingos of the Western Arctic Coast" by Dr. J.R. Mackay.

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AUDITORS' REPORT

To the Board of Governors  
Science Institute of the Northwest Territories

We have audited the balance sheet of the Science Institute of the Northwest Territories as at March 31, 1991 and the statements of revenue, expenditures and unexpended funds for the year then ended. These financial statements are the responsibility of the Institute's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with generally accepted auditing standards. Those standards require that we plan and perform an audit to obtain reasonable assurance whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation.

In our opinion, these financial statements present fairly, in all material respects, the financial position of the Institute as at March 31, 1991 and the results of its operations for the year then ended in accordance with generally accepted accounting principles.

*Mackay & Partners*  
CHARTERED ACCOUNTANTS

Yellowknife, Northwest Territories  
May 27, 1991

NOTES TO THE FINANCIAL STATEMENTS

FOR THE YEAR ENDED MARCH 31, 1991

2. DEFERRED REVENUE

Deferred revenue represents monies committed for programs for which the expenditures have not yet been incurred.

	1991 \$	1990 \$
Medical Research		
- Minister of Consumer Affairs	132,095	151,312
Slowpoke Reactor Program		
- Energy, Mines and Resources	7,000	7,000
Rayrock Program		
- Indian and Northern Affairs	1,735	1,735
Beluga Research		
- Minister of Fisheries and Oceans	24,521	-0-
	<u>165,351</u>	<u>160,047</u>

3. UNEXPENDED FUNDS

Included in unexpended funds is \$402,310 which the Board has identified to be spent on the Technology Development Program in the next two fiscal years and \$100,836 which the Board has identified to be spent on medical research.

4. JURISDICTION OF INCORPORATION

The Science Institute of the Northwest Territories was established by an Act of the Government of the Northwest Territories in 1984.



NOTES TO THE FINANCIAL STATEMENTS

FOR THE YEAR ENDED MARCH 31, 1991

1. SIGNIFICANT ACCOUNTING POLICIES

A. Unrecorded Costs Paid by the Government of the Northwest Territories

The Government of the Northwest Territories provides approximately 1,850 square feet of office space, rent free. In addition the Government provides telephone and mail services, printing, translation and library services, as well as other services that are under an Administration Agreement without charge. No provision has been made for these costs.

The G.N.W.T. also provides 3 research centres, 5 scientific reserves and 2 field stations along with all maintenance and utilities related thereto, for the exclusive use of the Institute on a rent free basis. No provision for these costs are included in these financial statements.

B. Fixed Assets

Fixed assets are expensed in the year of acquisition. The accounts "fixed assets" and "investment in fixed assets" reflect the historical cost of all assets owned by the Institute.

Office equipment and furnishings belonging to the Government of the Northwest Territories that were being used by the Institute were transferred to the Institute by the Administration Agreement on February 18, 1987 and recorded at values established by the Government of the Northwest Territories.

Office equipment and furnishings associated with federal research facilities in the Northwest Territories were transferred to the Institute under an agreement dated November 18, 1988 and recorded at values established by the Government of the Northwest Territories.

STATEMENT OF REVENUE, EXPENDITURES AND UNEXPENDED FUNDS

FOR THE YEAR ENDED MARCH 31, 1991

	1991 \$	1990 \$	1990 \$
	Revised Budget	Actual	Actual
<b>REVENUE</b>			
Government of the Northwest Territories			
Department of the Executive	1,518,050	1,580,359	1,591,524
Department of Renewable Resources	3,000	10,463	12,000
Department of Education	2,000	-0-	6,000
Department of Culture and Communications	3,000	3,000	2,400
Government of Canada			
Employment and Immigration	3,428	3,403	1,247
National Research Council of Canada	94,300	101,310	94,983
Fisheries and Oceans	-0-	35,479	-0-
Industry, Science and Technology	25,000	-0-	23,575
Energy, Mines and Resources	4,800	10,400	2,400
Environment Canada	-0-	-0-	1,800
Cultural and Consumer Affairs	-0-	70,000	-0-
Boards of Education	3,500	3,000	-0-
Interest	90,000	133,525	98,648
Donations	20,000	9,000	-0-
Contributions from:			
Pacific Metals	-0-	-0-	5,000
Northwest Territories Power Corporation	-0-	-0-	1,000
Publications	1,000	1,075	195
Rental and services	3,000	5,658	2,954
Sale of assets	-0-	818	15,535
	<u>1,771,078</u>	<u>1,967,490</u>	<u>1,859,261</u>

SCIENCE INSTITUTE OF THE NORTHWEST TERRITORIES

STATEMENT OF REVENUE, EXPENDITURES AND UNEXPENDED FUNDS

FOR THE YEAR ENDED MARCH 31, 1991

	1991 \$	1990 \$
	Revised Budget	Actual
REVENUE (Carried Forward)	1,771,078	1,859,261
EXPENDITURES		
Salaries and benefits	995,810	1,031,474
Administration	110,000	71,360
Special projects	-0-	35,479
Board of Governors	53,000	13,768
Chairman	10,500	3,448
Executive Director	18,250	20,331
Industrial Research Assistance Program	41,690	52,073
Information/Education	126,500	80,267
Medical Research	-0-	70,000
Research Centre operations - Igloolik	74,000	59,796
Research Centre operations - Iqaluit	61,000	57,036
Research Centre operations - Inuvik	67,000	64,008
Research Centre operations - Headquarters	42,600	87,516
Research Assistance	-0-	-0-
Science Advisor	10,000	5,041
Science Administration	33,900	13,654
Technology Development	110,000	48,844
	<u>1,754,250</u>	<u>1,523,646</u>
INCREASE IN UNEXPENDED FUNDS FOR THE YEAR	16,828	253,395
UNEXPENDED FUNDS, OPENING	597,040	261,425
UNEXPENDED FUNDS, CLOSING	<u>613,868</u>	<u>597,040</u>

SCIENCE INSTITUTE OF THE NORTHWEST TERRITORIES

BALANCE SHEET

AS AT MARCH 31, 1991

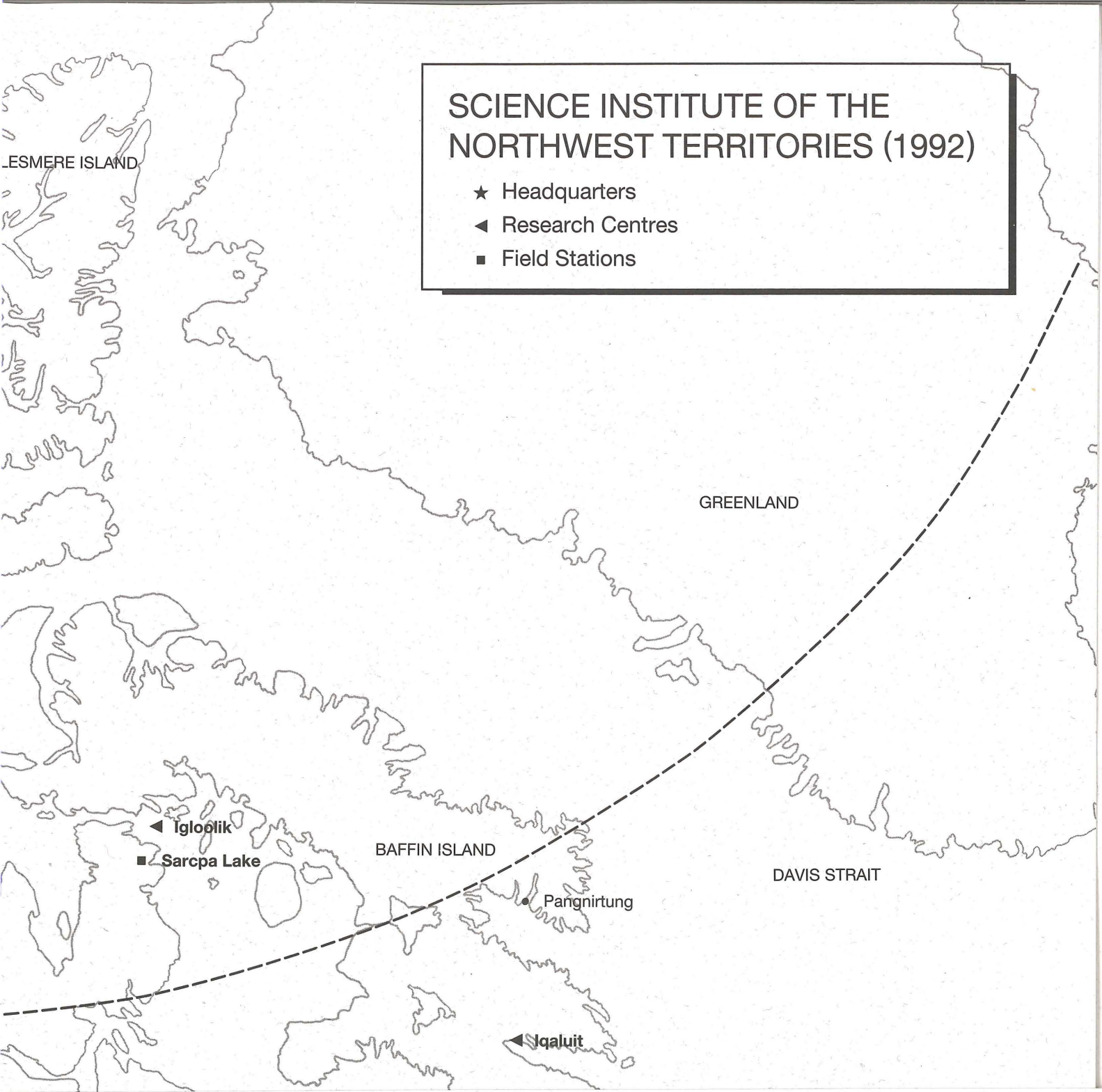
	1991 \$	1990 \$
ASSETS		
CURRENT		
Cash and term deposits	1,129,588	729,442
Accounts receivable	182,084	163,839
Prepaid expenses	1,732	851
	<u>1,313,404</u>	<u>894,132</u>
FIXED ASSETS	781,063	664,059
	<u>2,094,467</u>	<u>1,558,191</u>
LIABILITIES		
CURRENT		
Accounts payable and accrued liabilities	297,618	137,045
Deferred revenue (Note 2)	165,351	160,047
	<u>462,969</u>	<u>297,092</u>
INSTITUTE'S EQUITY		
INVESTMENT IN FIXED ASSETS	781,063	664,059
UNEXPENDED FUNDS (Note 3)	850,435	597,040
	<u>1,631,498</u>	<u>1,261,099</u>
	<u>2,094,467</u>	<u>1,558,191</u>

APPROVED BY THE BOARD OF GOVERNORS:

*John H. Parker* Chairman  
*Kayel MacInnes* Governor

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