

SCOMM

136:3

ALASKA STATE LEGISLATURE

Chair:
Legislative Council

Member:
Community and Regional Affairs
Judiciary
Labor and Commerce – Vice Chair



Session:
Alaska State Capitol
Juneau, AK 99801-1182
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10928 Eagle River Road – Suite 238
Eagle River, AK 99501-2133
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REPRESENTATIVE PETE KOTT DISTRICT 17 – EAGLE RIVER

Sponsor Statement for House Concurrent Resolution 6

In 2003 the Alaska State Legislature passed HCR 32 in order to establish the Information Infrastructure Policy Task Force. HCR 6 extends that task force. The task force is charged with consideration of Alaska's role and interest in long-term information infrastructure development in order to provide all Alaska communities improved telecommunications, health care, and education, homeland security, economic development opportunities, and access to government via broadband connectivity.

The Task Force will also investigate and recommend access to fiber optic connectivity to help bridge the divide that separates rural Alaska from the benefits of technological advances realized in urban areas. It will look at successful public-private partnerships to facilitate information infrastructure development. The Task Force will develop a comprehensive package with recommendations including legislation, if necessary, to meet the needs of Alaska.

House Concurrent Resolution 6 extends the termination date of the Alaska Information Infrastructure Policy Task Force until the first day of the First Regular Session of the Twenty-Fifth Alaska State Legislature in January 2007.

We respectfully request favorable consideration and support for HCR 6.

FISCAL NOTE

STATE OF ALASKA
2005 LEGISLATIVE SESSION

Fiscal Note Number: _____
 Bill Version: HCR 6
 () Publish Date: _____

Revision Date/Time (Note if correction): _____ Dept. Affected: Legislature
 Title "Relating to the continuation of the Alaska BRU Legislative Council
Infrastructure Policy Task Force until the first day of..." Component: Council and Subcommittees
 Sponsor "Kott, Harris, Rokeberg, Chenault, Berkowitz..."
 Requestor Representative Kott Component No. 783

Expenditures/Revenues (Thousands of Dollars)

Note: Amounts do not include inflation unless otherwise noted below.

OPERATING EXPENDITURES	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Personal Services	86.0	44.0	0.0	0.0	0.0	0.0
Travel	12.0	0.0	0.0	0.0	0.0	0.0
Contractual	0.0	0.0	0.0	0.0	0.0	0.0
Supplies	0.0	0.0	0.0	0.0	0.0	0.0
Equipment	0.0	0.0	0.0	0.0	0.0	0.0
Land & Structures	0.0	0.0	0.0	0.0	0.0	0.0
Grants & Claims	0.0	0.0	0.0	0.0	0.0	0.0
Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL OPERATING	98.0	44.0	0.0	0.0	0.0	0.0

CAPITAL EXPENDITURES						
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CHANGE IN REVENUES ()						
-------------------------------	--	--	--	--	--	--

FUND SOURCE (Thousands of Dollars)

1002 Federal Receipts						
1003 GF Match						
1004 GF	98.0	44.0	0.0	0.0	0.0	0.0
1005 GF/Program Receipts						
1037 GF/Mental Health						
Other (Specify Type--Do not abbreviate)						
TOTAL	98.0	44.0	0.0	0.0	0.0	0.0

Estimate of any current year (FY2005) cost: _____

Check this box (X) if funding for this bill is included in the Governor's FY 2005 budget proposal: ☐

POSITIONS

Full-time	1					
Part-time		1				
Temporary						

ANALYSIS: (Attach a separate page if necessary)

This legislation extends the termination date of the Alaska Information Infrastructure Policy Task Force until the first day of the First Regular Session of the Twenty-Fifth Alaska State Legislature in January 2007. This fiscal note includes funding for one staff person and funding for the staff and the public members of the Task Force to travel to attend meetings of the Task Force. Other meetings of the Task Force will be teleconferenced. The Task Force shall submit a final report of its findings, the long-term infrastructure plan, and any draft legislation the Task Force finds necessary to meet the identified long-term infrastructure needs of the State, to the Legislature by the first day of the First Regular Session of the Twenty-Fifth Alaska State Legislature.

Prepared by: Karla Schofield, Deputy Director Phone 465-3852
 Division Administrative Services Date/Time 4/6/05 3:35 PM
 Approved by: Pamela A. Varni, Executive Director Date 4/6/2005
 Agency Legislative Affairs Agency

**STATE OF ALASKA
THE LEGISLATURE**

2004

Source
SCS CSHCR 32(FIN)

**Legislative
Resolve No.**
52



Relating to information infrastructure and establishing the Alaska Information Infrastructure Policy Task Force.

BE IT RESOLVED BY THE LEGISLATURE OF THE STATE OF ALASKA:

WHEREAS the development of information infrastructure will provide Alaska communities with access to broadband connectivity and provide for improved telecommunications, health care, education, homeland security, and economic development opportunities; and

WHEREAS access to fiber optic and wireless connectivity will help bridge the digital divide that separates rural Alaska from the benefits of technological advances realized by urban areas; and

WHEREAS public-private partnerships have been used successfully around the globe to facilitate information infrastructure development; and

WHEREAS the Alaska Industrial Development and Export Authority may issue conduit revenue bonds for qualified applicants;

BE IT RESOLVED that the Alaska State Legislature establishes the Alaska Information Infrastructure Policy Task Force to review and analyze the state's current and

long-term information infrastructure needs; and be it

FURTHER RESOLVED that the task force shall identify existing public and private fiber and broadband infrastructure in Alaska; and be it

FURTHER RESOLVED that the task force shall conduct a preliminary analysis of the state's long-term infrastructure needs; and be it

FURTHER RESOLVED that the task force shall consider how best to define the state's role and interest in information infrastructure development; and be it

FURTHER RESOLVED that the task force shall address the state's long-term information infrastructure needs by encouraging industry and government to take action, either separately or through joint efforts such as pooling and integrated resource planning, to meet those needs; and be it

FURTHER RESOLVED that the task force shall develop a long-term information infrastructure plan for Alaska that will efficiently enhance the state's economic future; and be it

FURTHER RESOLVED that the task force shall be composed of 13 members, including

- (1) the commissioner of administration or the commissioner's designee;
- (2) the commissioner of military and veterans' affairs or the commissioner's designee;
- (3) the commissioner of community and economic development or the commissioner's designee;
- (4) one member chosen by the President of the University of Alaska;
- (5) six at-large members chosen jointly by the Speaker of the House of Representatives and the President of the Senate;
- (6) three members of the legislature, including one chosen by the Speaker of the House of Representatives, one chosen by the President of the Senate, and one chosen jointly by the minority leaders of the House of Representatives and the Senate; and be it

FURTHER RESOLVED that the members of the task force shall select a chair from among themselves; and be it

FURTHER RESOLVED that a staff member and other resources shall be provided to the task force, as necessary, by the legislature; and be it

FURTHER RESOLVED that the task force is to begin work on June 1, 2004, or as soon after that date as possible; and be it

FURTHER RESOLVED that the task force may meet during the interim; and be it

FURTHER RESOLVED that the task force members shall serve without compensation but are entitled to transportation expenses and per diem as authorized for members of boards and commissions under AS 39.20.180; and be it

FURTHER RESOLVED that the task force shall provide a report of its findings, the long-term information infrastructure plan, and any draft legislation the task force finds necessary to meet the identified long-term infrastructure needs of the state to the legislature not later than the first day of the First Regular Session of the Twenty-Fourth Alaska State Legislature; and be it

FURTHER RESOLVED that the task force may make any interim reports on information infrastructure issues that it considers advisable; and be it

FURTHER RESOLVED that the task force is terminated not later than the adjournment of the First Regular Session of the Twenty-Fourth Alaska State Legislature.

HOUSE COMMITTEE REPORT

(7)

Date Referred to Committee: April 4, 2005

FURTHER REFERRALS:

Date of Committee Action: 4/22/05

The HOUSE SPECIAL COMMITTEE ON ECONOMIC DEVELOPMENT, INTERNATIONAL TRADE, AND TOURISM Committee considered: **HCR 6**

HOUSE CONCURRENT RESOLUTION NO. 6 EXTEND INFRASTRUCTURE POLICY TASK FORCE

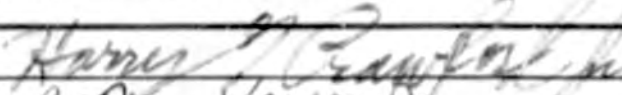
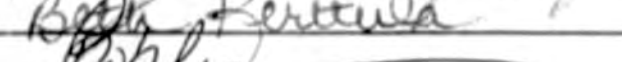
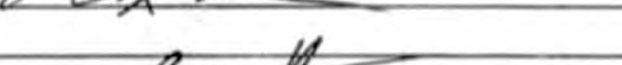
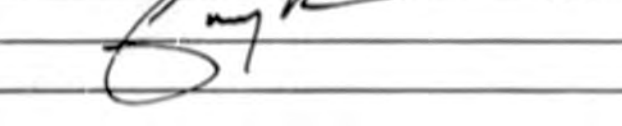
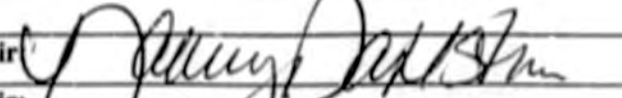
Relating to the continuation of the Alaska Information Infrastructure Policy Task Force until the first day of the First Regular Session of the Twenty-Fifth Alaska State Legislature in January 2007.

Recommends it be replaced with ☐ **HCS** *or* ☐ **CS** *for* _____ (_____) *For Senate Bills with new title:* ☐ *Technical Title* ☐ *New Title: HCR* _____ ☐ *Same Title* ☐ *New Title*

☐ attach amendments
☐ add new referral to _____ Committee
☐ Letter of Intent _____ Committee

*List of
Abbrev
for
Depts.:*
ADM
CED
COR
CRT
EED
DEC
DFG
GOV
HSS
LEG
LAW
LWF
MVA
DNR
DPS
REV
DOT
UA

[illegible][illegible]

Signing with recommendations		Printed Last Name	DP	DNP	NR	AM
	CRAWFORD	✓				
	KERTULA	✓				
	LYNN	X				
	WISMAN	✓				
	RAMRAS	X				
Chair: 	Dahlstrom	X				

Alaska Information Infrastructure Policy
Task Force Members

Wanetta Ayers, Director
Municipal Southwest Conference

Edgar Blatchford, Commissioner
Dept. of Community & Economic
Development

Kathe Bouche, Director
Internal Medicine and Telehealth
Providence Alaska Medical Center

H.A. "Red" Boucher, President
Alaska Wireless Inc.
Former Lieutenant Governor of Alaska
Former Mayor of Fairbanks
Father of Technology in Alaska

Michael Burke, Executive VP
Alaska Fiberstar

Craig Campbell, Commissioner
Dept of Military & Veteran's Affairs

Representative John Coghill
State Representative, Fairbanks

Stan Herrera, Director - Chief Technology Officer
Enterprise Technology Services
State of Alaska

Representative Reggie Joule
State Representative, Kotzebue

Karl Kowalski, Technology Coordinator
Northwest Arctic Borough School District

Ray Matiashowski, Commissioner
Department of Administration

Bill Noll, Deputy Commissioner
Dept. of Community & Economic Development
State of Alaska

Jason Ohler, Board Chairman
University of Alaska – Visionary

Roger Schnell, Deputy Commissioner
Department of Military and Veterans Affairs
State of Alaska

Steve Smith, Chief Technology Officer
University of Alaska

Jeffrey Staser, Federal Co-Chair
Denali Commission

Senator Burt Stedman
State Senator, Southeast Alaska



Michael T. Felix
President

505 E. Bull Drive
Anchorage, AK 99501-1111

April 18, 2005

The Honorable Pete Kott
State Representative
State Capitol
Juneau, Alaska 99801

Dear Representative Kott:

I want to take this opportunity to express AT&T Alascom's support for HCR 6.

The work of the Alaska Information Infrastructure Policy Task Force is important to the future of the state's infrastructure development and will serve as a planning process to meet those needs. With the varying interests and agenda in the industry, I view this task force as an un-biased third party, able to look for and recommend policies and solutions with the state's ultimate success at heart.

I applaud the legislature for taking on this important issue, and heartily recommend its continued funding.

Sincerely,

A handwritten signature in cursive script that reads "Mike Felix".

cc: Kristi Catlin
Ray Gillespie

*EIGHT IMPERATIVES
FOR ALASKA'S LEADERS*

*The challenge for Alaska's
leaders today is to define an
economic, social, and political
vision for a new kind of society:
a knowledge based society*

*The question is not whether
Alaska's leaders will step
forward to meet their
responsibilities, but how they can
do so in the best way possible.*

The Transition to Electronic Services

- **Focus on how IT can reshape work and public-sector strategies**
- **Use IT for strategic innovation, not simply tactical automation**
- **Utilize best practices in implementing IT initiatives**
- **Improve budgeting and financing for promising IT initiatives**

Emerging Challenges to Governance

- **Protect privacy and**
- **Form IT-related partnerships to stimulate economic development**
- **Use IT to promote equal opportunity and healthy communities**
- **Prepare for digital democracy**

Technology, by itself, is not the answer. Using technology to develop Knowledge Workers, with the focus on learning, is the road to the future. This is a story of a small Yupik Eskimo village, on the southwest coast of Alaska, that is using technology to enhance it's quality of life while still maintaining it's native lifestyle

A Joint Effort of:

- **Nelson Island Schools**
- **Hewlett Packard Computer Corp.**
- **Alaska Wireless Technology**
- **MIT Media Lab**

Population:

550 Residents, 2 Schools:

Grade K-3 School Pop:

80; Grade 3-12 Pop: 85

Economy:

Subsistence Hunting,

Trapping, Fishing, Grass

Basketry, Ivory Carving,

2 Stores, 1 Airstrip

Demographics:

98% Yup'ik Eskimo

55 Houses

Juneau, AK:

1000 Miles ==>

Seattle:

3200 Miles ==>

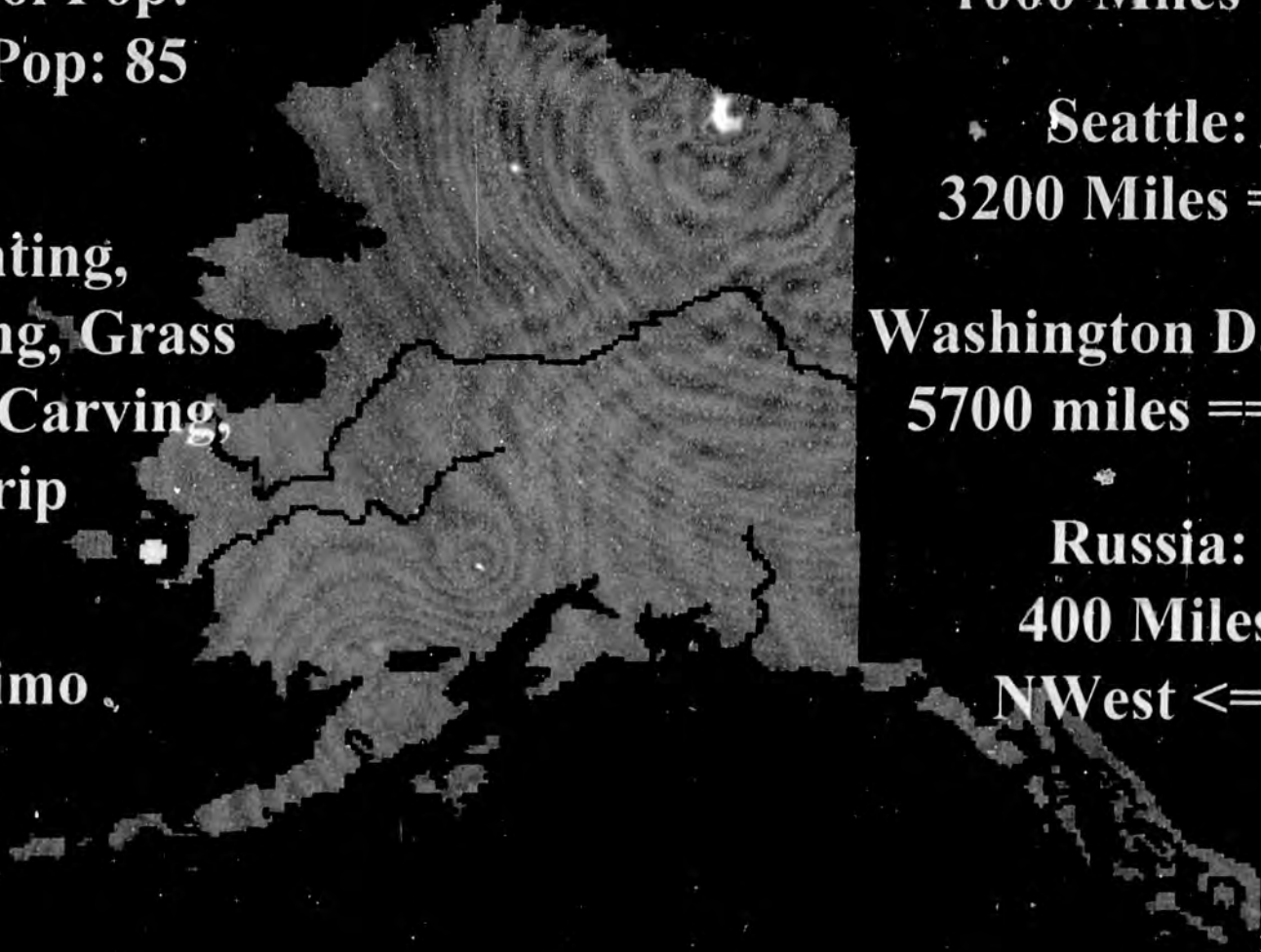
Washington D.C.:

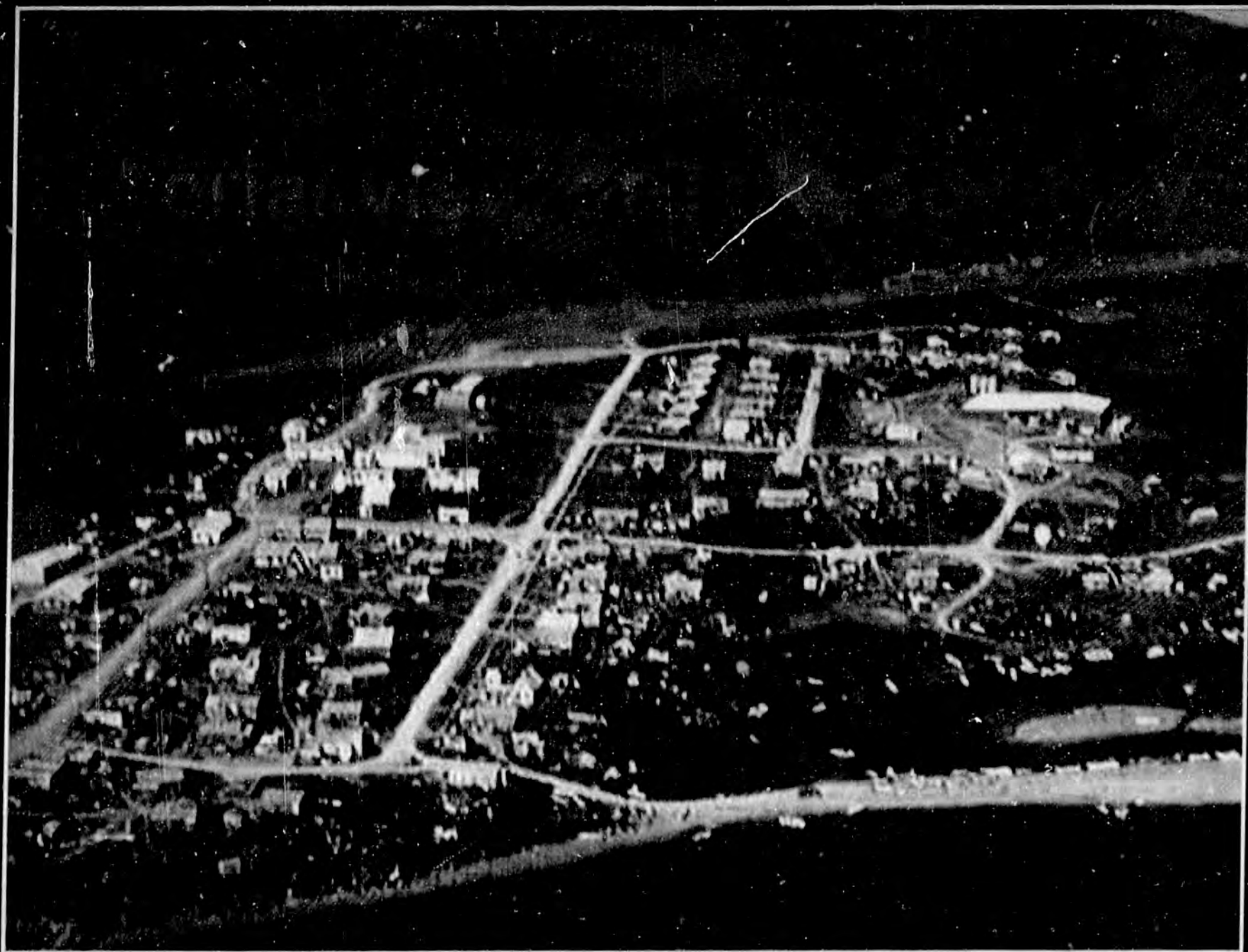
5700 miles ==>

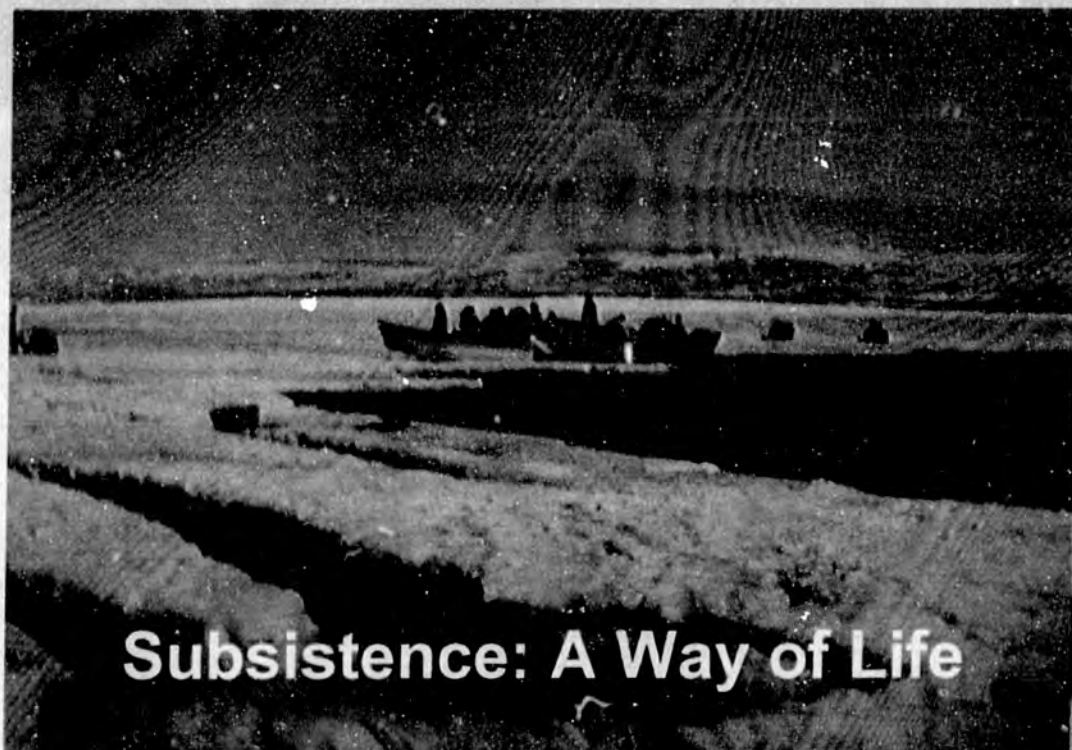
Russia:

400 Miles

NWest <==







Subsistence: A Way of Life

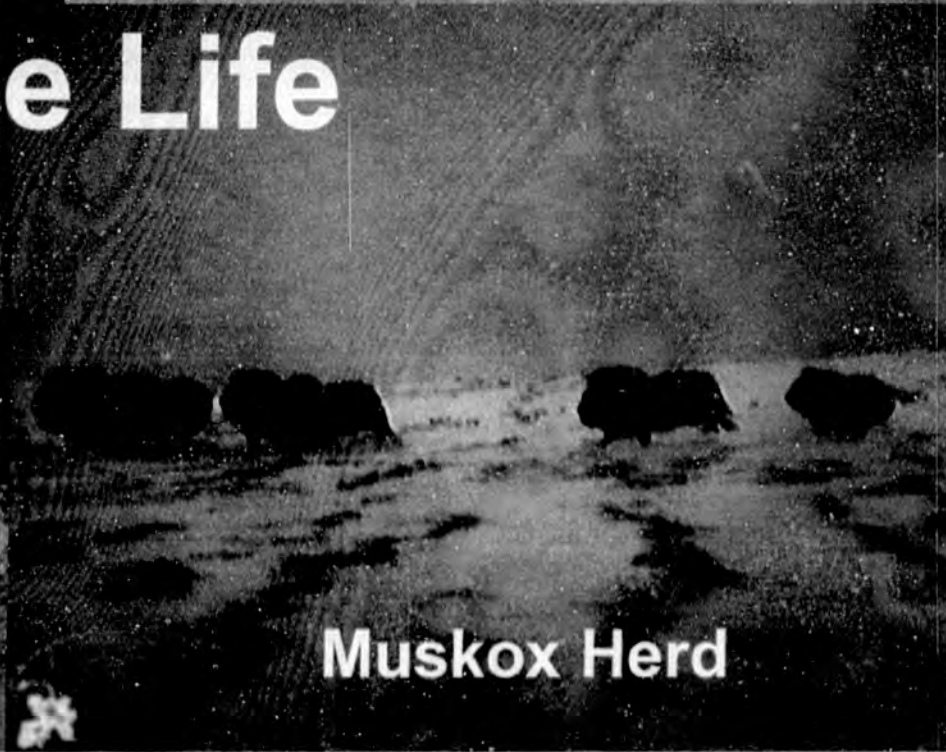


Village Cache

Village Life



Village Transportation



Muskox Herd



The Information Age

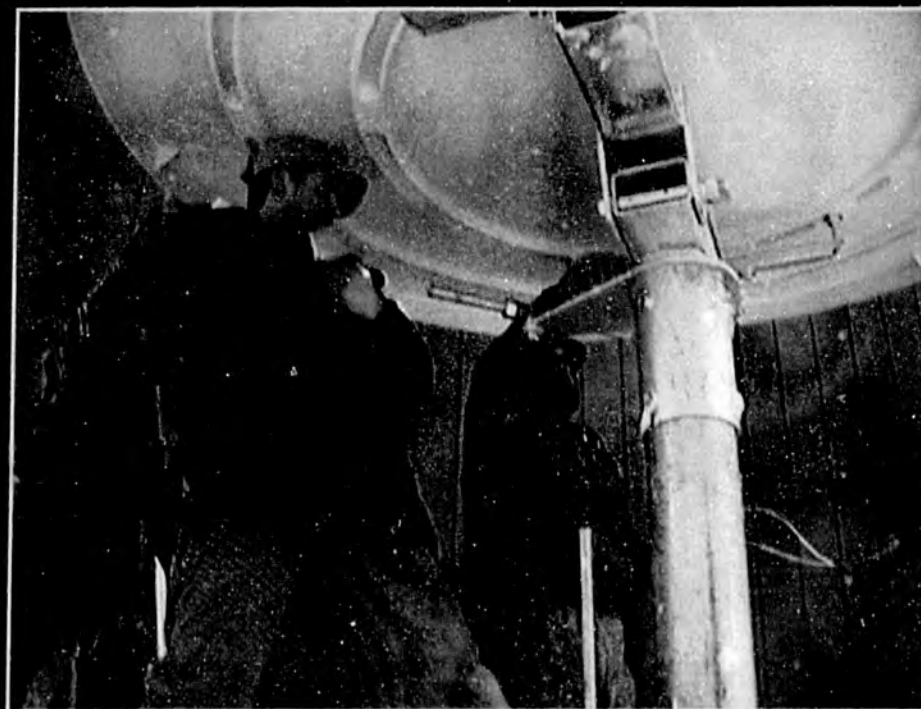


Information in family

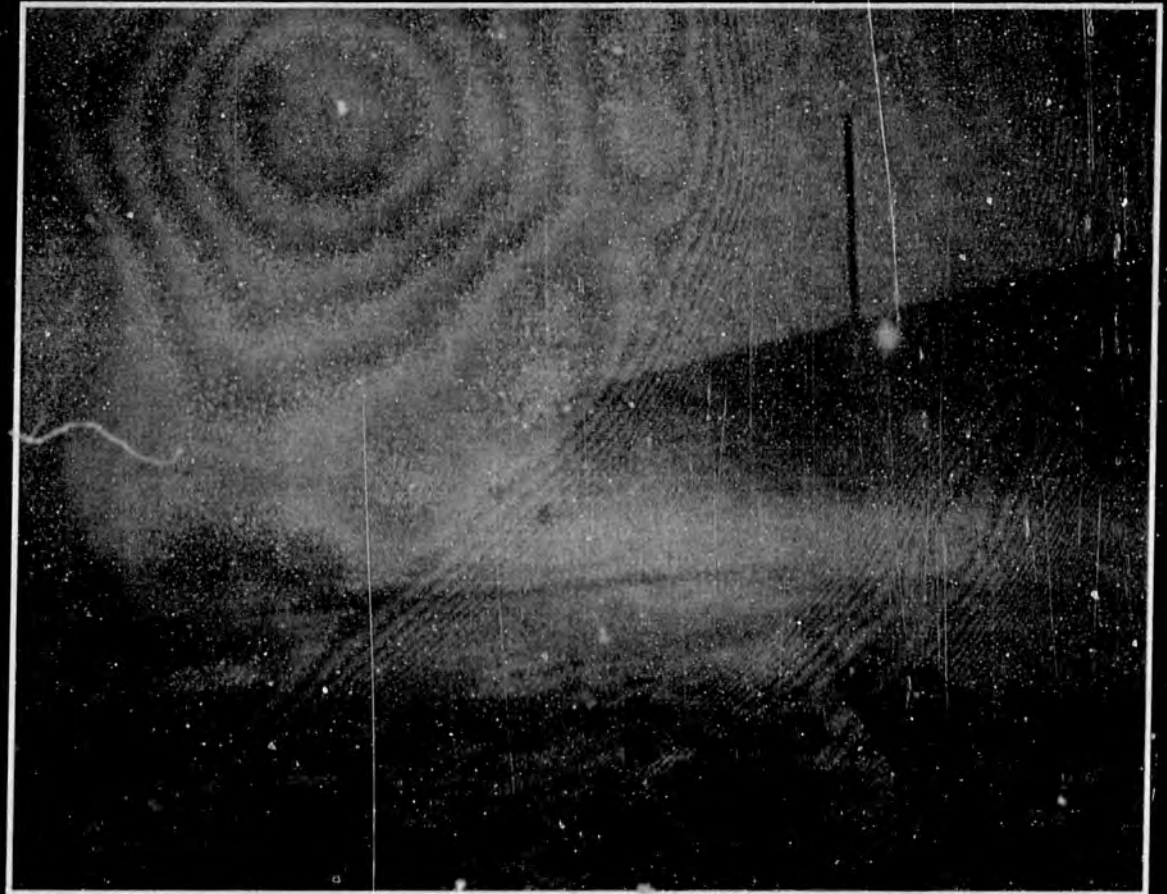


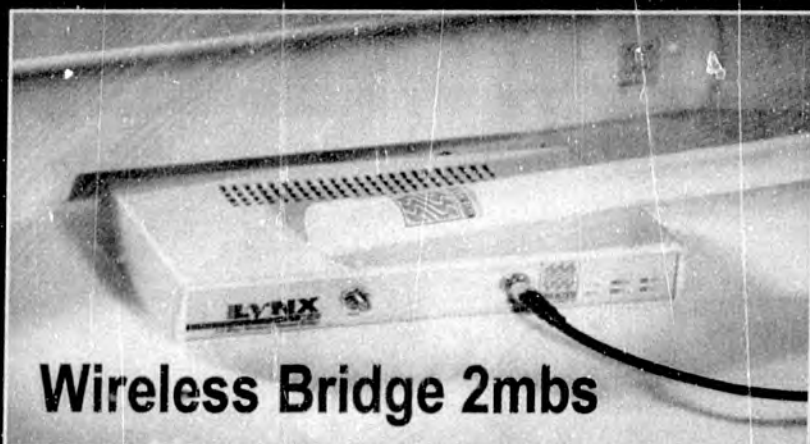
- **Get parents, students, and community leaders involved**
- **Provide education opportunities**
- **Provide economic opportunities**
- **Improve healthcare**
- **Provide new skills**
- **Enhance culture**

- **December 3, 1997**
- **Time 2 days**



- **December 5, 1997**
- **Alaska Wireless**
- **Whiteout**
- **Temperature -20 F,
winds 40 knots**
- **Students installed,
under direction of
Alaska Wireless**
- **Time 8 hours**

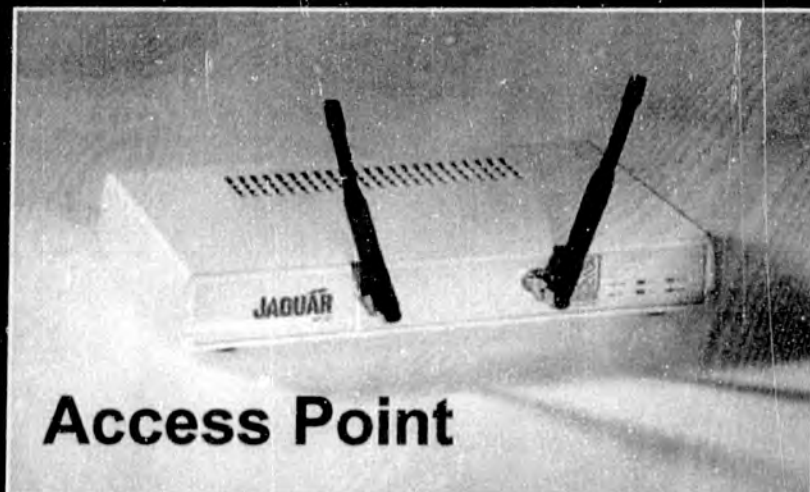




Wireless Bridge 2mbps



Point to Multipoint 2mbps

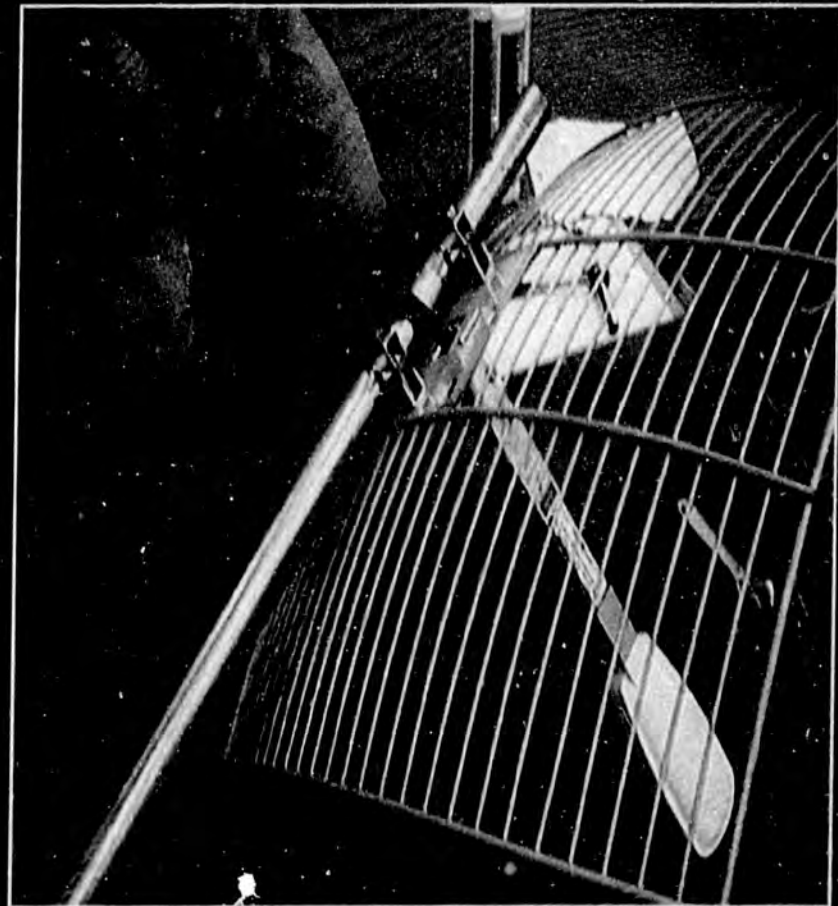


Access Point

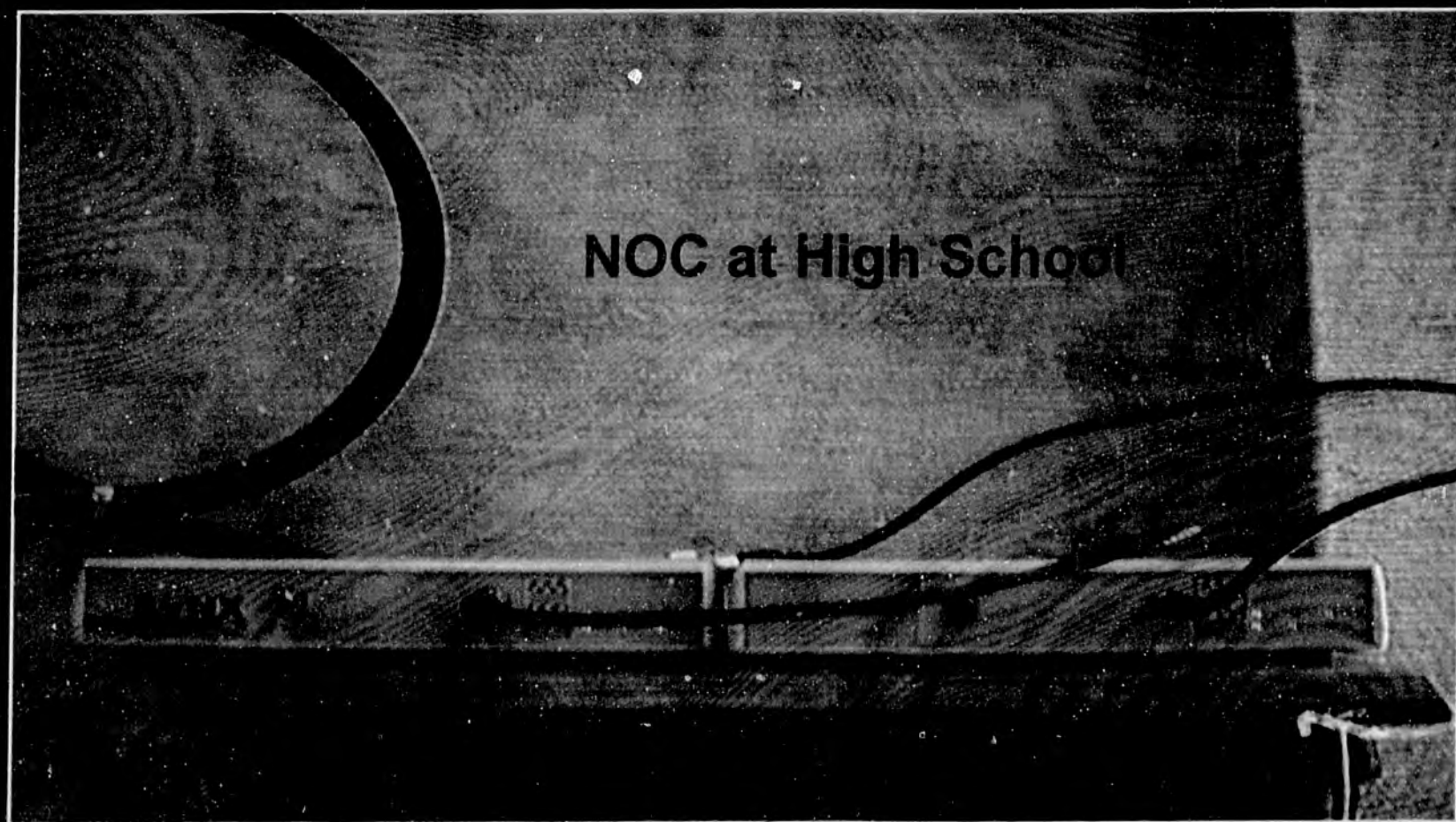


Laptop Antenna

- **Setup inside from weather**
- **About 2 hours to install**
- **Simple tools, 2-3 people get the job done**
- **Antenna mounted on High School roof-highest point in town**



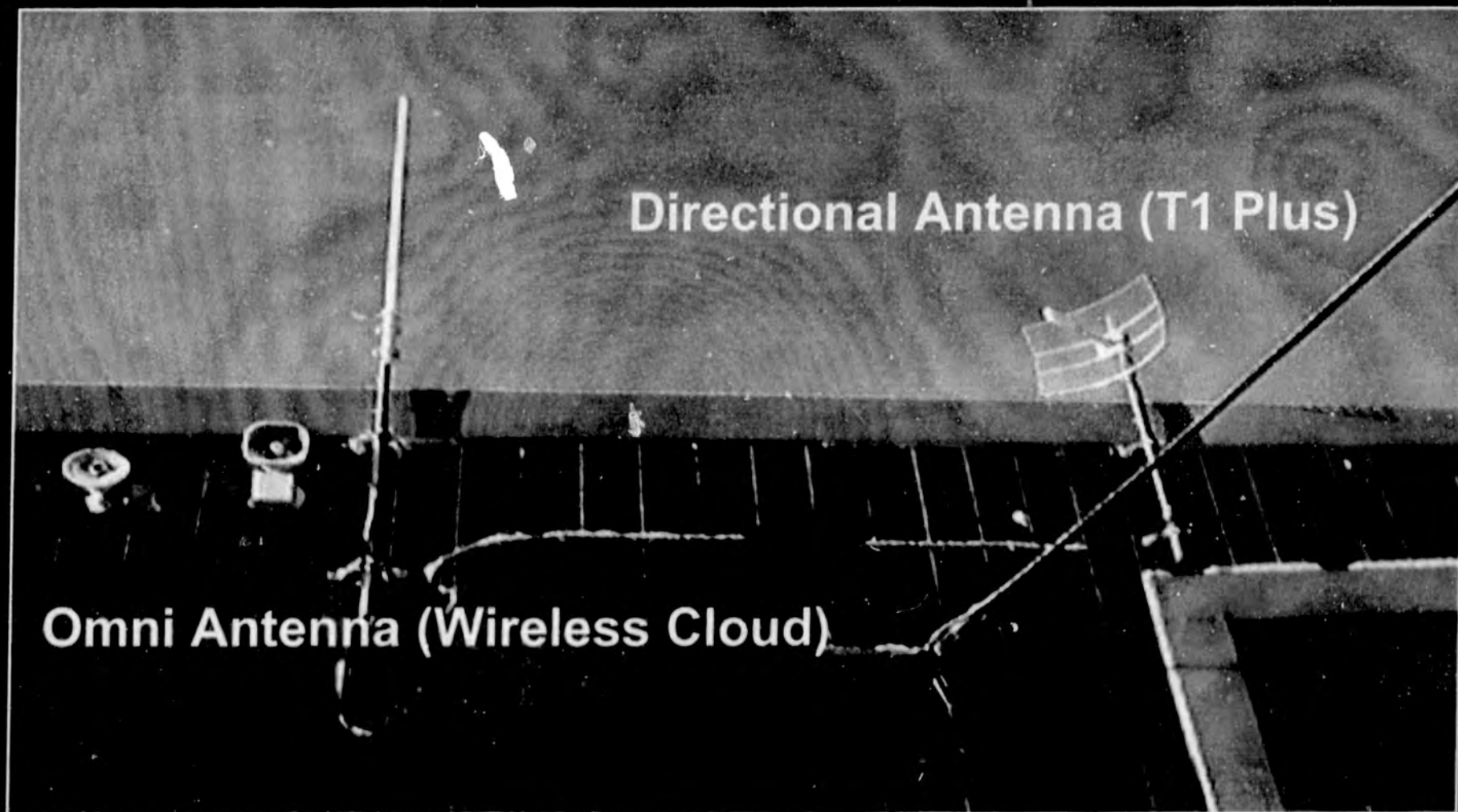
HIGH SCHOOL

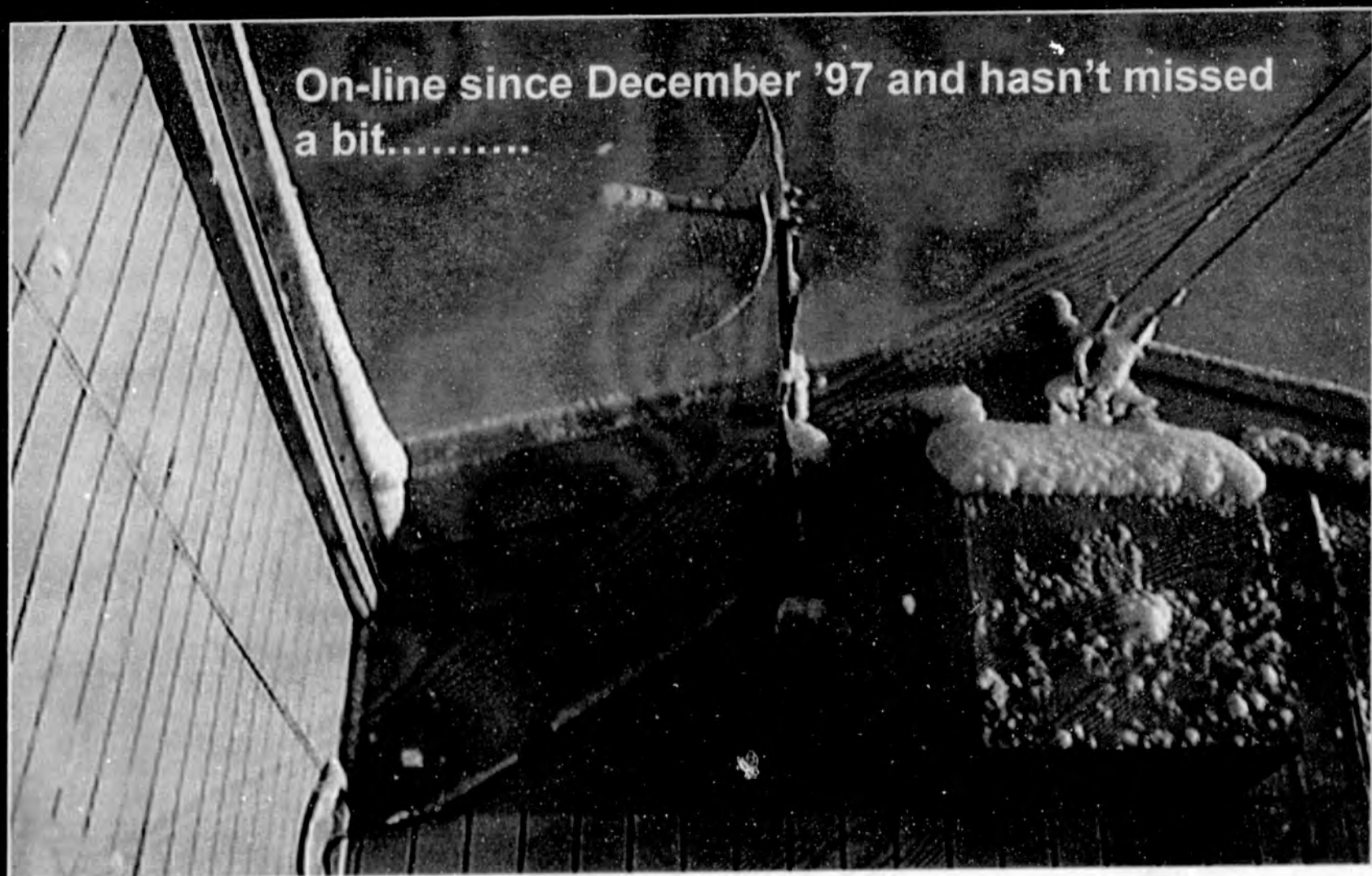


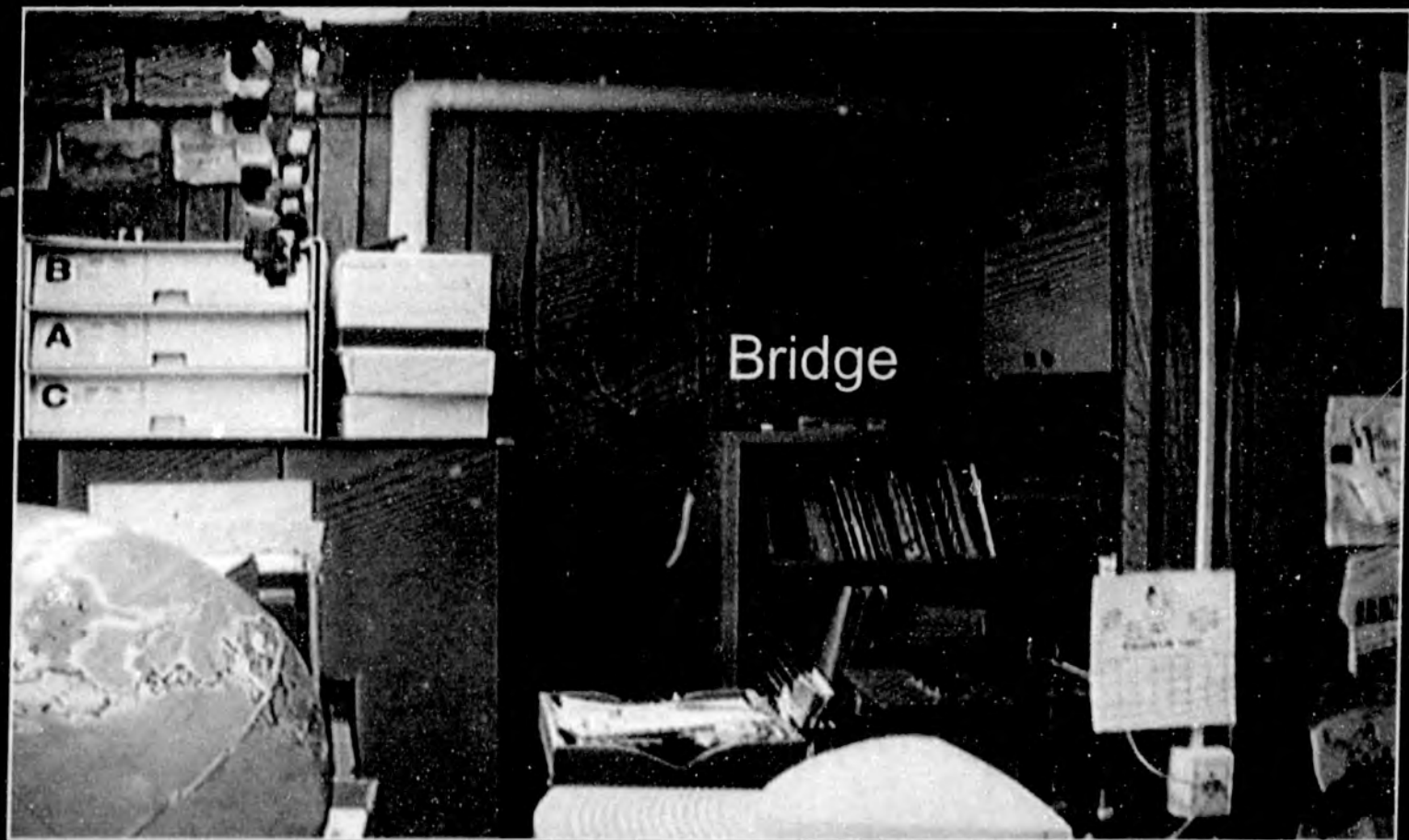
NOC at High School

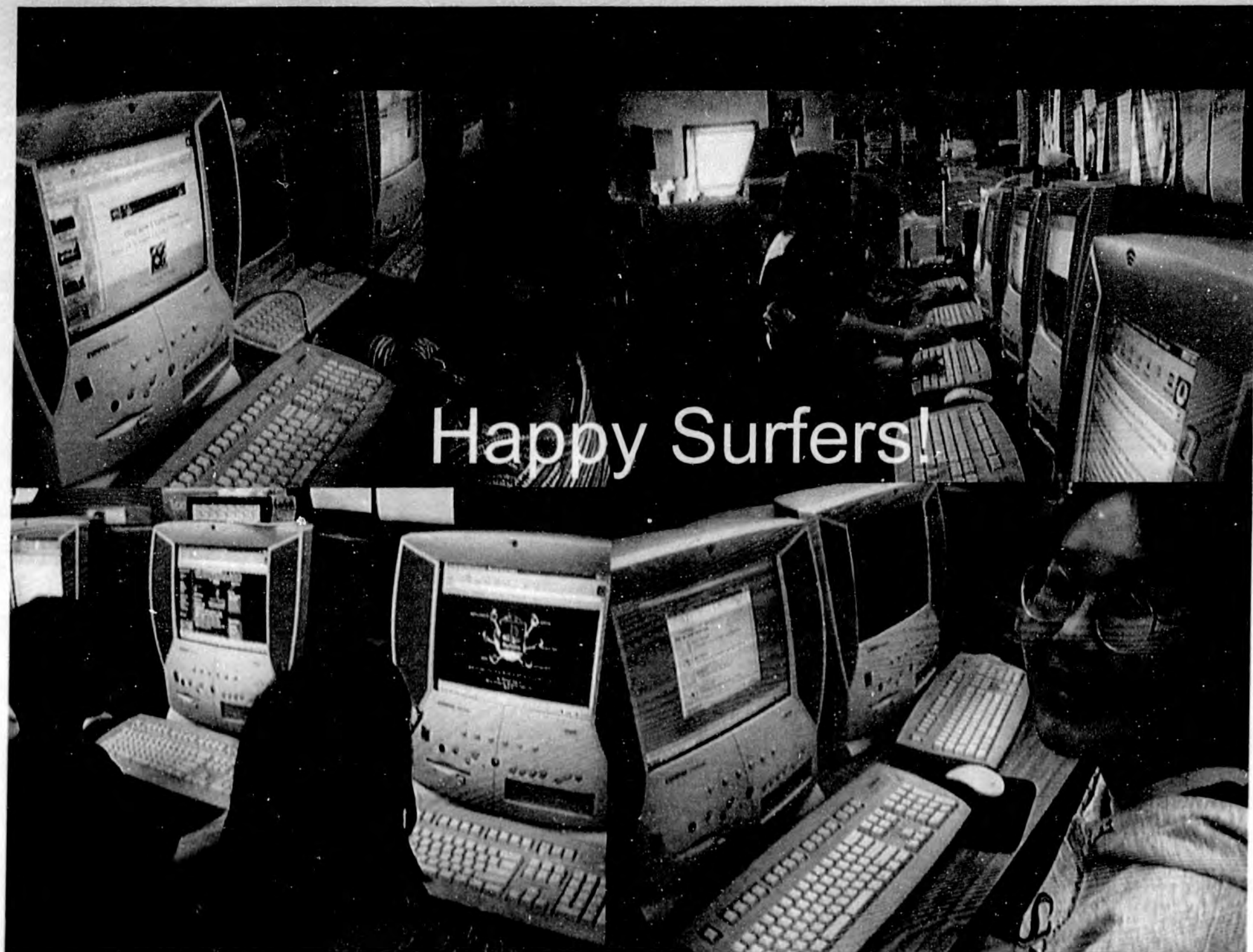
Directional Antenna (T1 Plus)

Omni Antenna (Wireless Cloud)



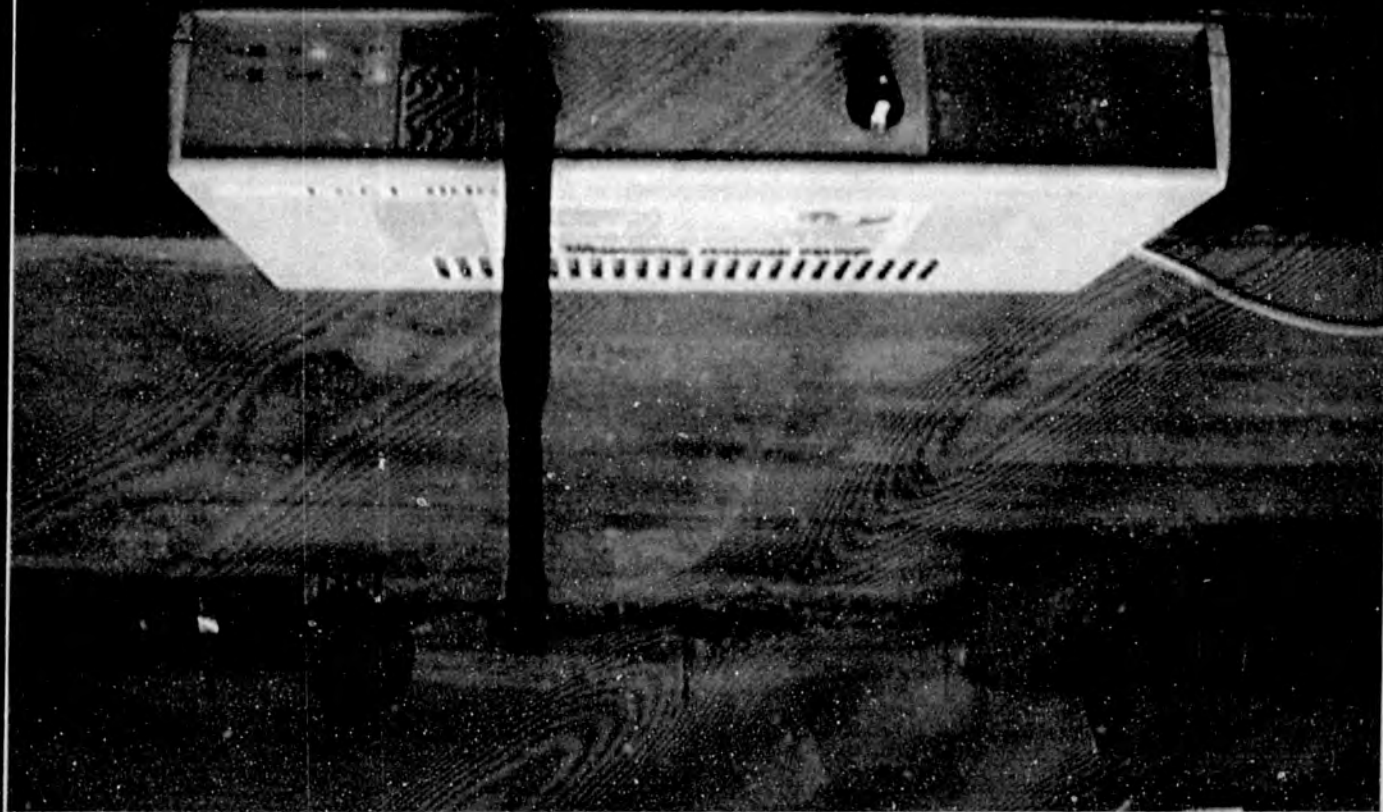


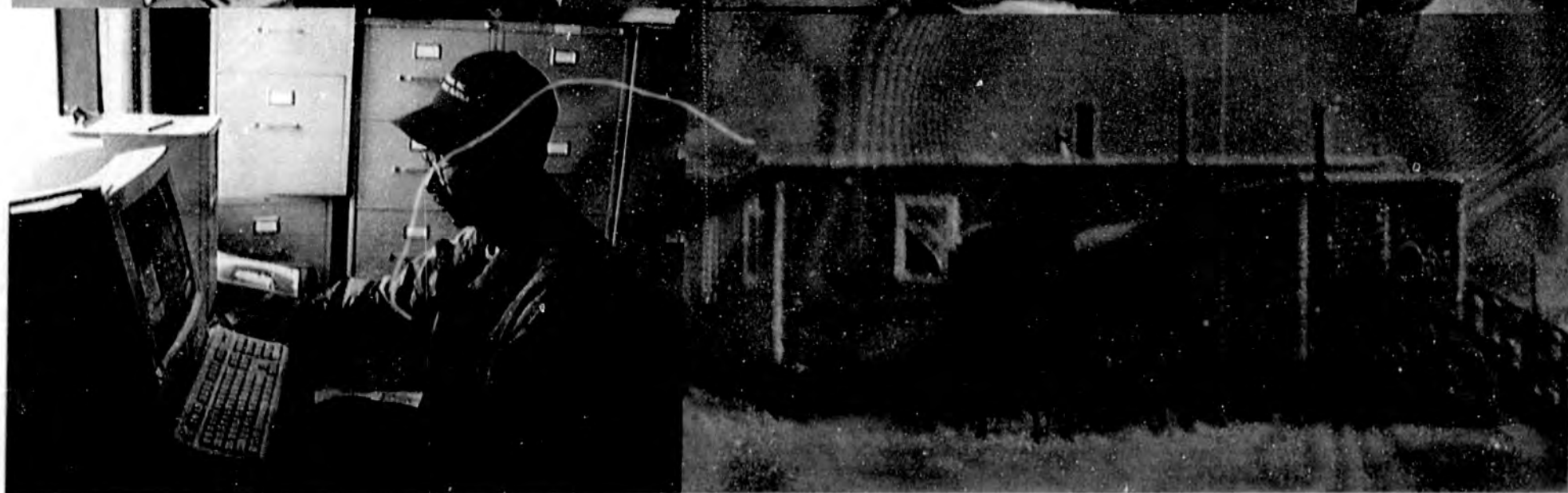


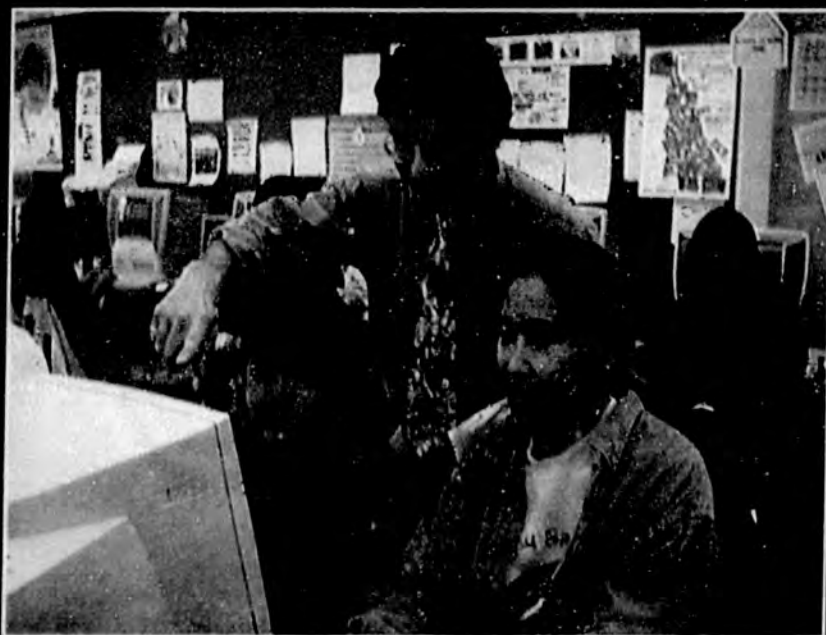


Happy Surfers!

Access Point 2mbs







**Teacher-Tech and
students at Nelson
Island High School
connected to
students in Madrid,
Spain.**

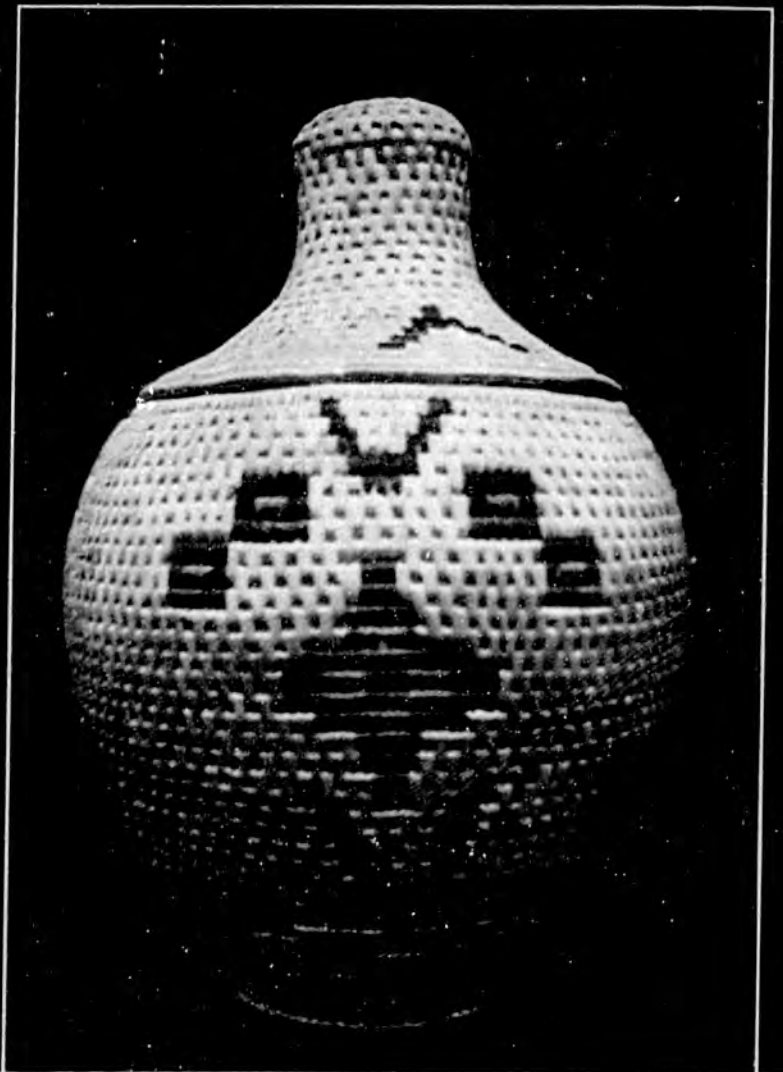


The students of Nelson School participated in the MIT Media Lab sponsored Junior Summit, which brought together students from all over the world. Using Lego/Logo kits they built powered Lego units controlled by their Hewlett Packard/Compaq computers.



Wausau Sandman and Emily Chagluak built a controllable “Intelligent House” with this Lego/Logo technic module. Using their Hewlett Packard/Compaq computers. The IH mimicked programmable houses with rotating satellite dishes, garage doors, lights and internal gadgetry.

- **Build a VAM[®]**
- **Train webmaster**
- **Train Villagers in E-Commerce and E-Conomy Skills**
- **Connect to other villages**
- **Develop Regional Rural Electronic Mall for Global E-Commerce**



BERINGA MALL

Native Crafts Emporium

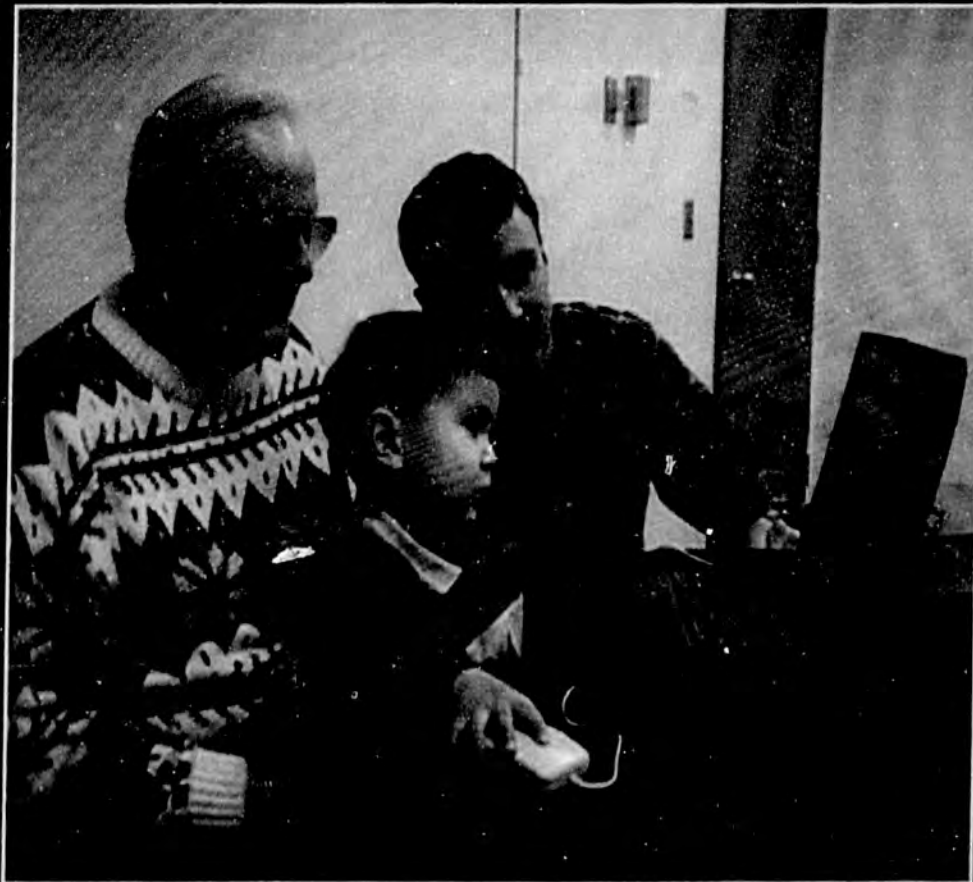
Toksook Bay, Alaska 99637



Results

- Healthcare improved
- New job skills
- Economic opportunity for entire village
- Enhanced cultural values
- Students have solid uninterrupted access to the Internet

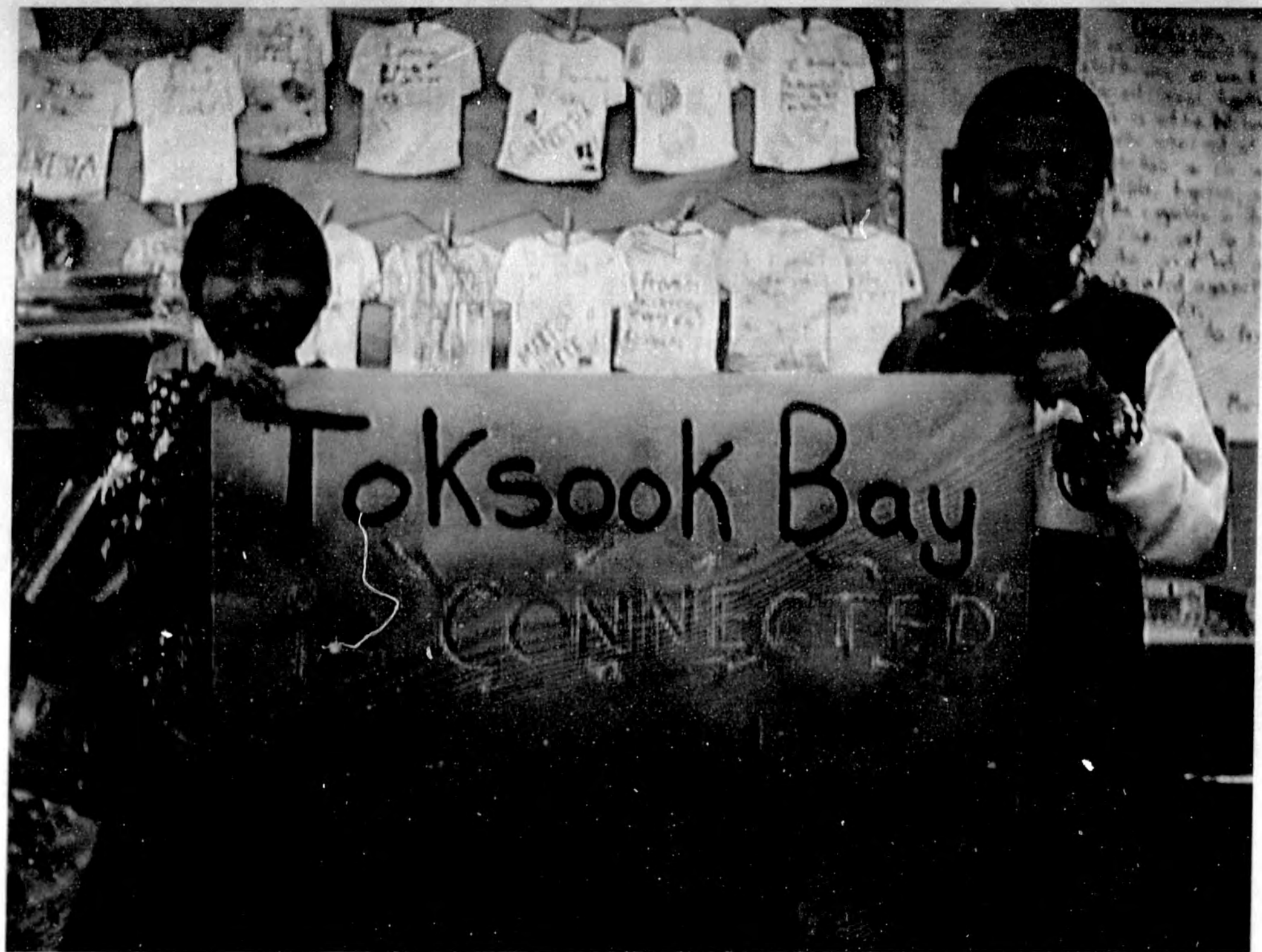




- **New Technologies**
- **New Generations of savvy users**
- **New Economic Opportunities**
- **Improved healthcare**
- **Empowered communities**



www.2b1.org/



National Press Coverage

[The Washington Post]

OUTLOOK

SUNDAY, AUGUST 9, 1998

Eskimos Warm to the Digital Age

By DOUG FINE

I had never seen a Web site materialize so fast. I was in Toksook Bay, a largely subsistence Yup'ik Eskimo village in western Alaska, 400 miles from Russia and 5,700 miles from Washington. My host, Greg Lincoln, a thirtyish Yup'ik man, was demonstrating the cutting edge of wireless digital technology.

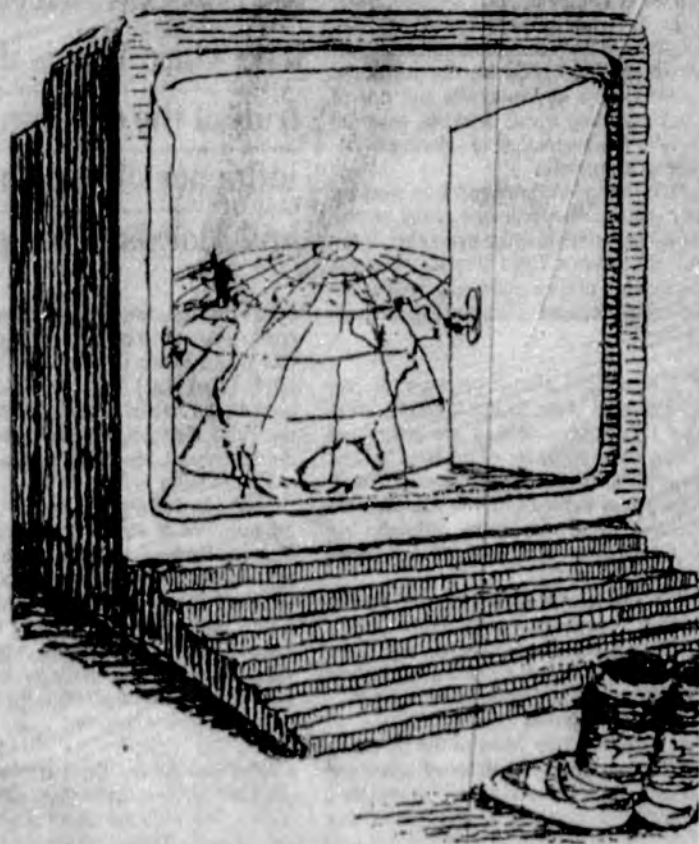
I was greeted by an immediate sound blast of Yup'ik voices accompanied by an animated image of Lincoln's daughter stomping in traditional clothing. Lincoln's Web site (members.aol.com/glincoln45/frame.html) celebrates traditional Eskimo life by displaying dancing rituals and stereophonic singing. I clicked on an icon, and was offered crafts made by his family and friends for sale in a "Village Mall." Chalk up one cluster of indigenous people who don't need to leave traditional lands in order to make a cash living.

The key to Lincoln's demonstration was a small box on the windowsill of his house which pulls down satellite-beamed transmissions powerful enough to provide him with Internet access at bandwidths something like three times faster than the current standard at American corporations and 10 times faster than in most American homes—all without a telephone line. What's more, Lincoln can keep his Internet connection all day—at no cost.

A fledgling company called Alaska Wireless is installing the boxes in Toksook Bay in the hope of show-

See CONNECTED, C5, Col. 1

Doug Fine, who has reported for The Washington Post from Burma, Laos and Rwanda, is directing a feature film in Alaska called "Migration."



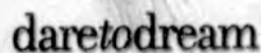
BY JANISZ KAPUSTA FOR THE WASHINGTON POST

The Magazine for the Internet, Computers, and Technology www.slack.com/etfogg.com



Focus: Funding Technology

EDUCATION ■ TECHNOLOGY ■ FAST FORWARD



Treading water at the moment, thanks, it's a real lesson with the Internet (aka "Web"). And despite it all, a heavy Net initiation, as he appreciates web-gangbangers, he feels any understanding of what the Net means for it's little bit of a smart guy that will be the first to say it's not what it's not. The place is not worth his, a greater together for something else."

And besides, it is only the one person on the way up to the "Last Frontier," splitting the time between helping to manage the state and that Native villages in the funding get used and something off to their engines. It is taking on half of an Alaska local tribe. But because helping the indigenous and creating jobs for them. Because that's the

At 76, Red Boucher is the most prominent digital evangelist in the "Last Frontier."

about looking at homebased businesses in Alaska's communities. "What makes me is the 50 percent majority," he explains in a heated voice that causes him to spit out slugs of spit in a contemptuous "force of three" perhaps. But right there, across with their community. The

[illegible]

most prominent
clint in the "Last Frontier."



of Orange County, California

[illegible]

- The students and teachers of Nelson Island School, Toksook Bay, Alaska
- Hewlett Packard/Compaq Computer Inc.
- The MIT Media Lab
- Alaska Wireless Technology

Thank You!

Thank You!

H.A. Boucher & Assoc.

redbou@alaska.net

(a H.A. Boucher & Assoc.

Preliminary Report to the Alaska State Legislature on HCR 32

**Relating to Information Infrastructure
and the
Alaska Information Infrastructure Task Force**



Alaska's Mission

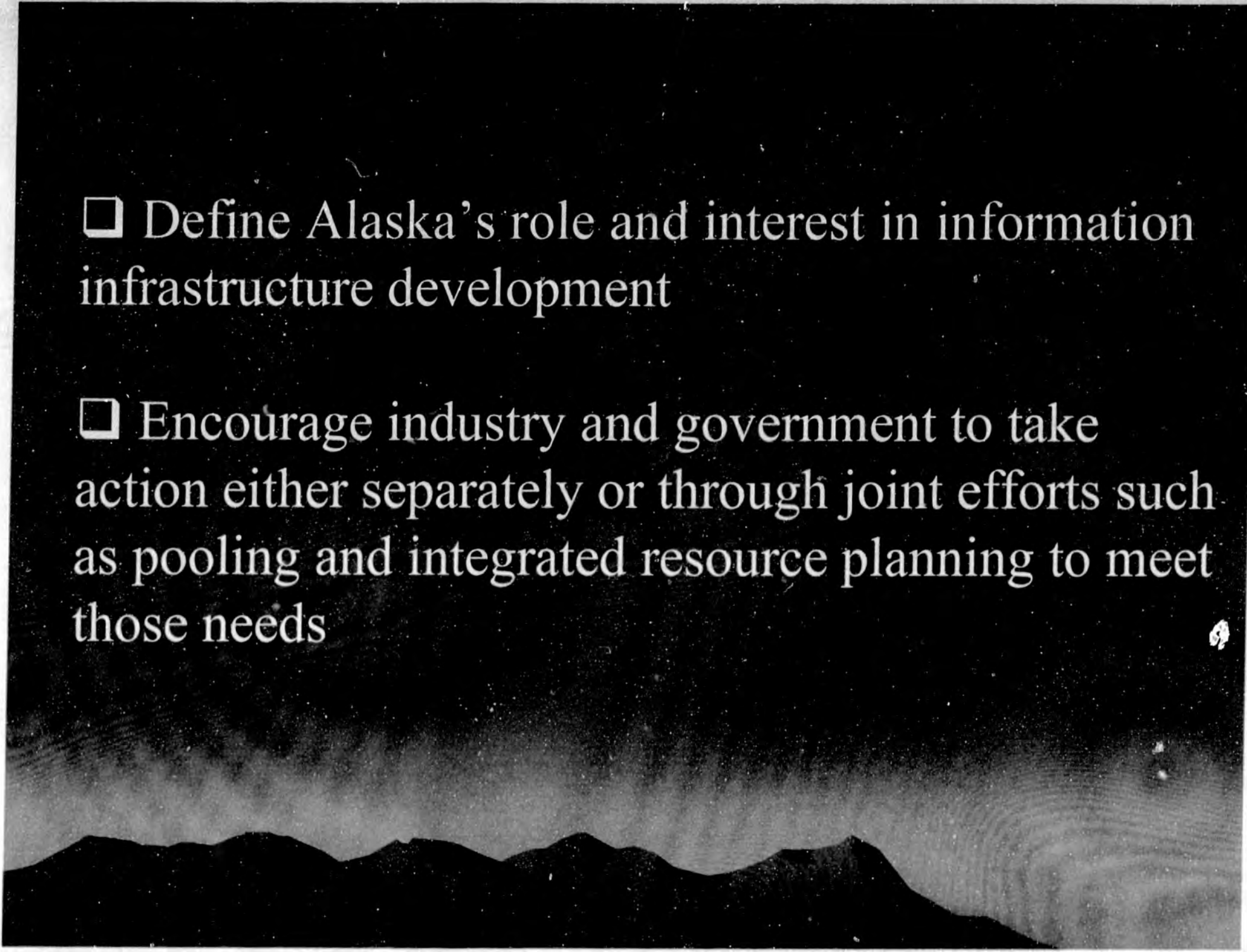
- ☐ To develop its IT potential and digital economy
- ☐ To help everyone, particularly rural Alaskans, use the Internet and digital technology to expand opportunities in employment, education, healthcare, and access to government
- ☐ To develop the leadership to make this happen



Task Force Mission

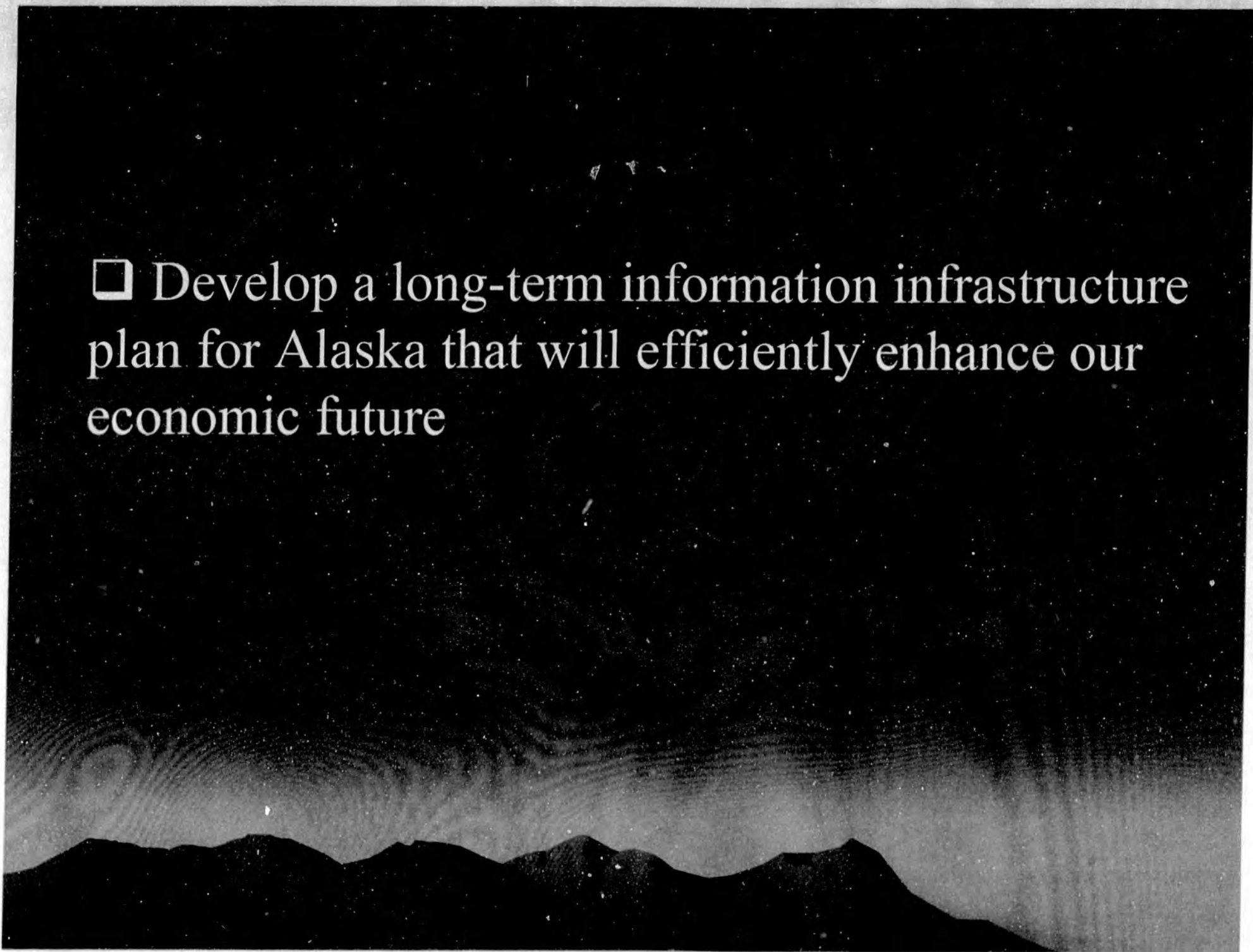
- ☐ Review and analyze Alaska's current and long-term information infrastructure needs
- ☐ Identify Alaska's existing public and private and broadband infrastructure
- ☐ Conduct a preliminary analysis of Alaska's long-term infrastructure needs





☐ Define Alaska's role and interest in information infrastructure development

☐ Encourage industry and government to take action either separately or through joint efforts such as pooling and integrated resource planning to meet those needs



☐ Develop a long-term information infrastructure plan for Alaska that will efficiently enhance our economic future

Accomplishments to Date

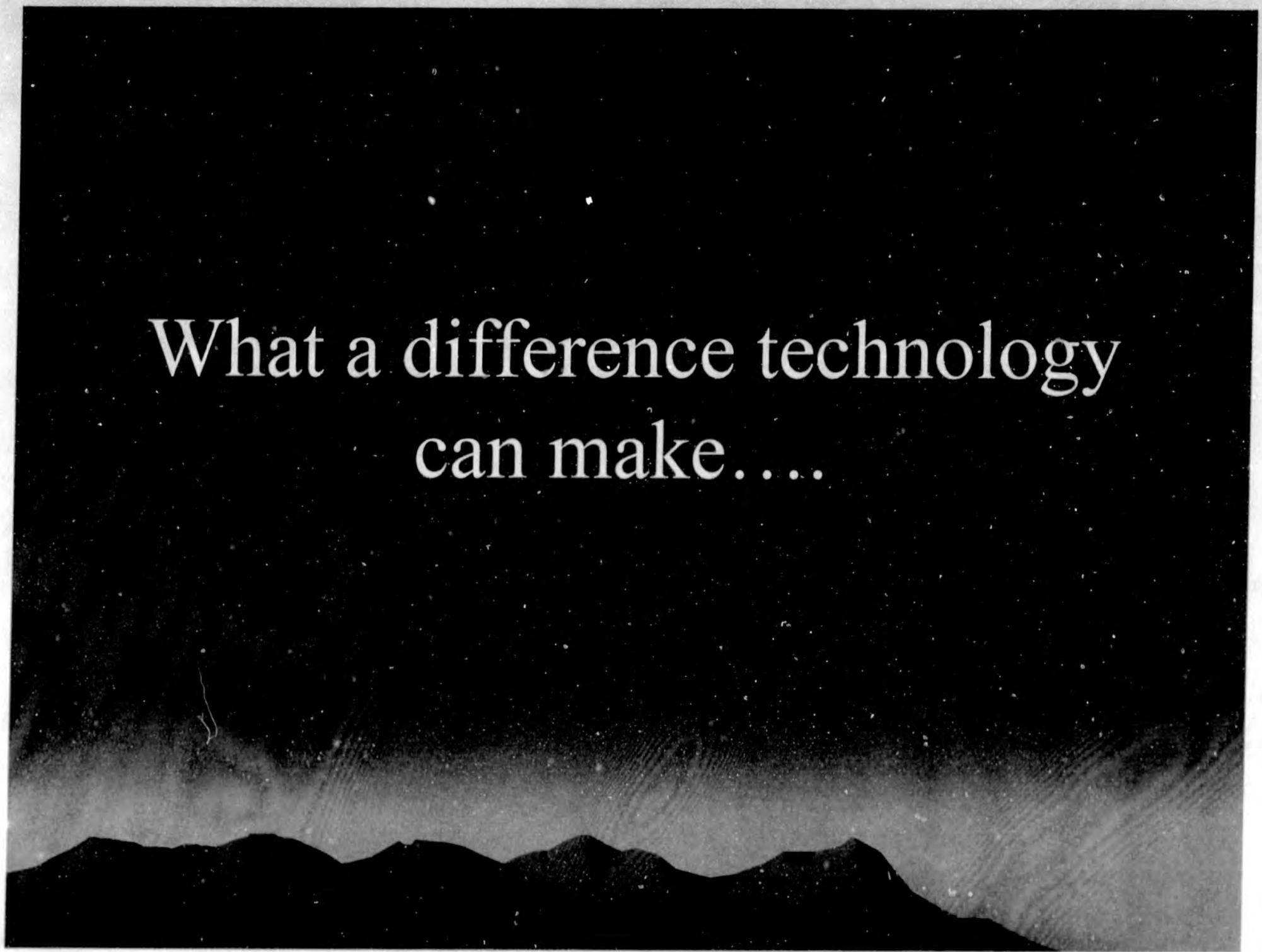
AIIP Task Force met three times in late November/December.

Initiated discussions centered around the services that could be provided with high-speed broadband connectivity in the areas of health care, education, homeland security, and economic opportunities.

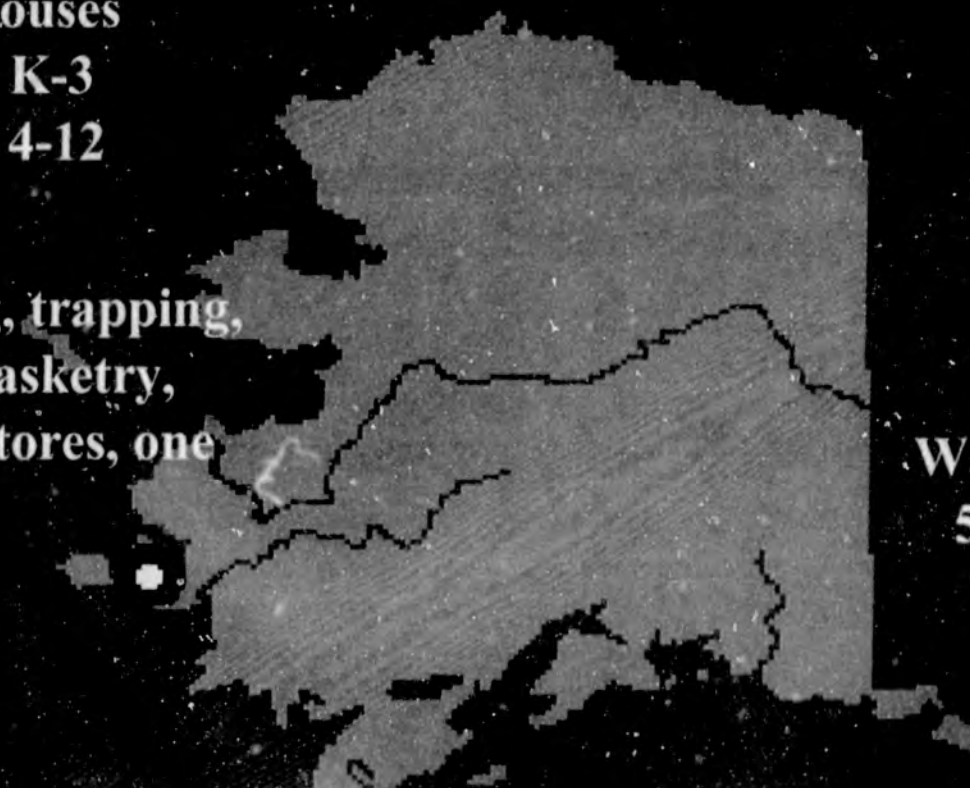
What needs to be done now:

1. Extend Task Force through the end of the next Legislative session
2. Provide staff support and funding for research allowing the Task Force to identify existing public and private fiber and broadband infrastructure in Alaska, as charged

What a difference technology
can make....



Toksook Bay, Alaska



Population:

550 Residents, 55 Houses

80' Students Grades K-3

85 Students Grades 4-12

Economy:

Subsistence hunting, trapping,
and fishing; grass basketry,
ivory carving, two stores, one
airstrip

Demographics:

98% Yup'ik Eskimo

Juneau:

1000 Miles ==>

Seattle:

5700 miles ==>

Washington, D.C.:

5700 miles ==>

Russia:

<== 400 Miles

Even the nation notices....

[The Washington Post]

OUTLOOK

SUNDAY, AUGUST 9, 1998

Eskimos Warm to the Digital Age

By DOUG FINE

I had never seen a Web site materialize so fast. I was in Toksook Bay, a largely subsistence Yup'ik Eskimo village in western Alaska, 400 miles from Russia and 5,700 miles from Washington. My host, Greg Lincoln, a thirtyish Yup'ik man, was demonstrating the cutting edge of wireless digital technology.

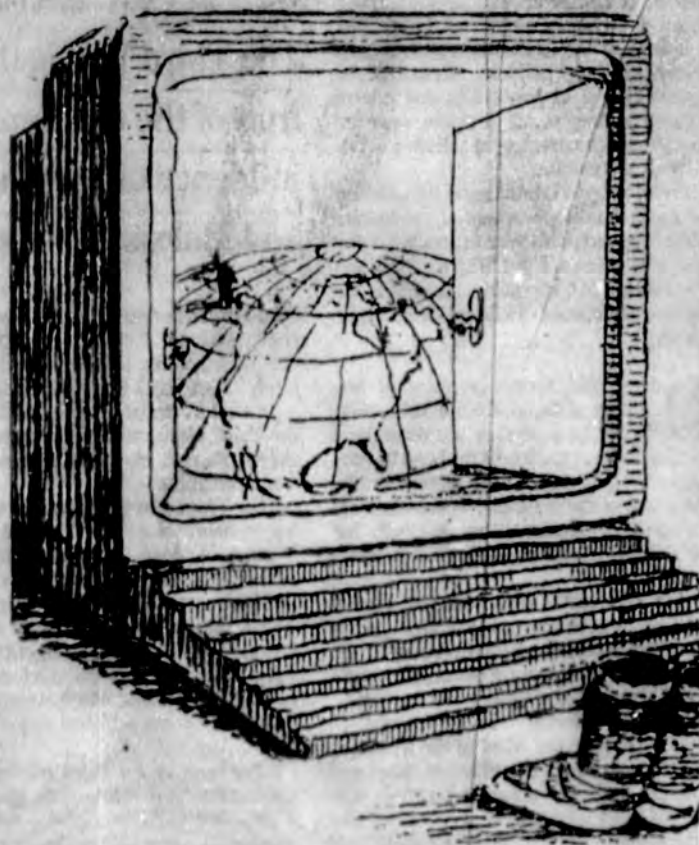
I was greeted by an immediate sound blast of Yup'ik voices accompanied by an animated image of Lincoln's daughter stomping in traditional clothing. Lincoln's Web site (members.aol.com/glincoln45/frame.html) celebrates traditional Eskimo life by displaying dancing rituals and stereophonic singing. I clicked on an icon, and was offered crafts made by his family and friends for sale in a "Village Mall." Chalk up one cluster of indigenous people who don't need to leave traditional lands in order to make a cash living.

The key to Lincoln's demonstration was a small box on the windowsill of his house which pulls down satellite-beamed transmissions powerful enough to provide him with Internet access at bandwidths something like three times faster than the current standard at American corporations and 10 times faster than in most American homes—all without a telephone line. What's more, Lincoln can keep his Internet connection all day—at no cost.

A fledgling company called Alaska Wireless is installing the boxes in Toksook Bay in the hope of show-

See CONNECTED, C5, Col. 1

Doug Fine, who has reported for The Washington Post from Burma, Laos and Rwanda, is directing a feature film in Alaska called "Migration."



BY JAMES KAPUSTA FOR THE WASHINGTON POST

Alaska

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The Magazine for the Internet, Computers and Technology

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WHITE

Alaska's Big Connector



Traveling around the Frigid
North, it's a real treat to find the
state's only... (text continues)

... (text continues) ...

At 76, Russ Boucher is the most prominent
digital evangelist in the "Last Frontier."

... (text continues) ...

... (text continues) ...

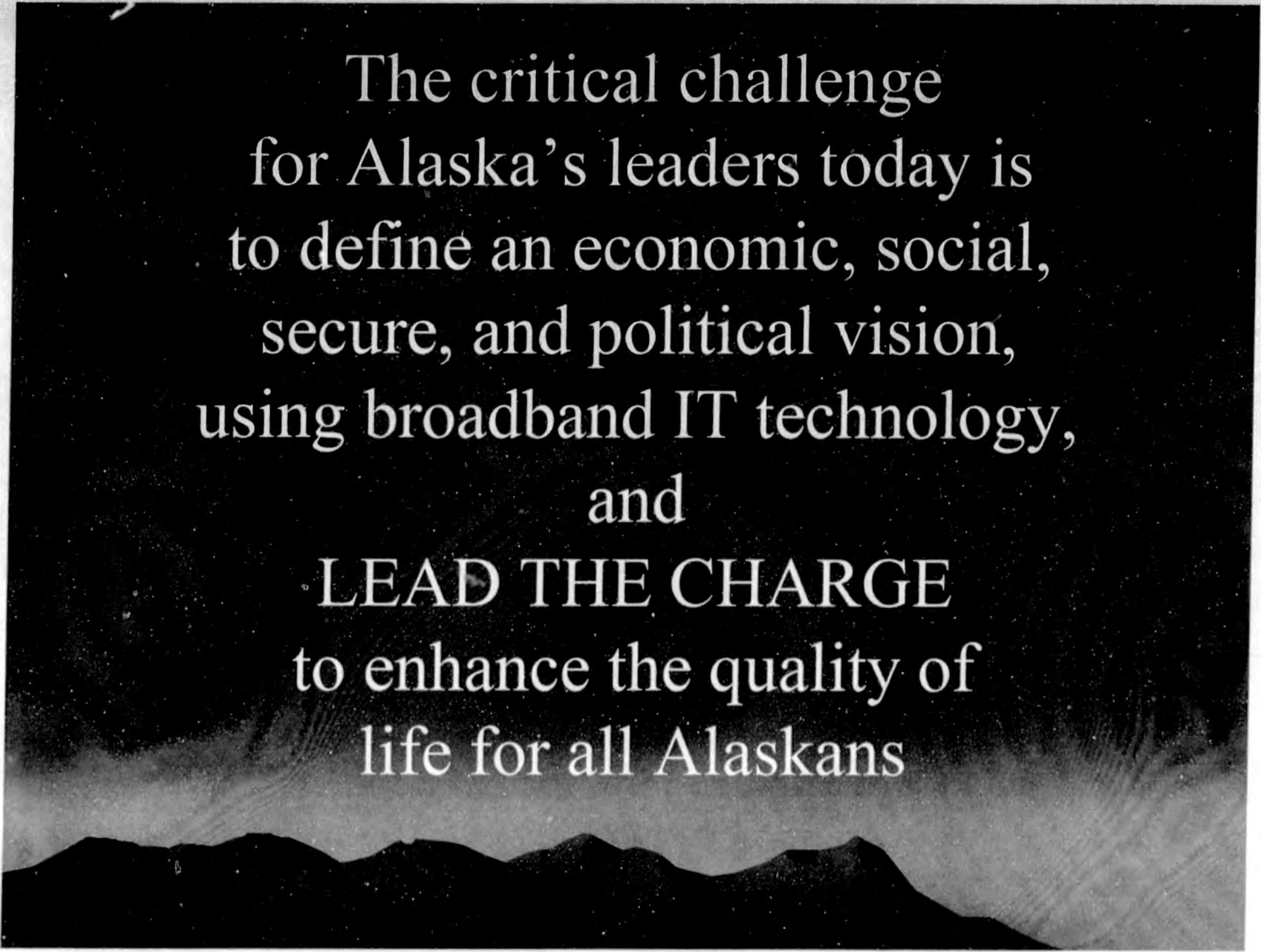
... (text continues) ...

Providing Opportunities For Rural Alaska

Community Learning Center Partnership

Joint Partnership of: The Community of Aniak, Alaska;
HP Computer Corporation; and AT&T Alascom





The critical challenge
for Alaska's leaders today is
to define an economic, social,
secure, and political vision,
using broadband IT technology,
and

LEAD THE CHARGE
to enhance the quality of
life for all Alaskans

Now more than ever before
SECURITY of Alaska's Information Systems
is paramount

People tend to think that someone else is taking
care of it

Our leaders must be responsible and accept their
role as policy makers



“The attitude that digital security is
someone else’s problem,
or is something to be addressed after
the real work gets done,
is pervasive in the business world.”

Thomas J. Parent
Harvard Business School

“The one thing we would recommend, particularly due to recent events within the state, is a comprehensive IT Security Audit/Assessment done by a reputable third party. One that covers People, Processes and Technology. Beyond just a network scan, but a good look at policies, procedures, security architecture, incident response and reporting, backup and contingency plans and procedures, patch procedures, and importantly, the ability of the people to manage, react to and get ahead of cyber threats. Their ability can be influenced by training, certification, rewards and accountability.”

**Cyber Security Research Department
National Security Division
Idaho National Laboratory**

2005 and Beyond? It's Up to Our Leaders



Respectfully Submitted

H.A. Boucher, Chairman

AIIP Task Force

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