Juneau Economic Development Council
20 years!!!

Southeast Conference
September 19, 2007
JEDC 2007 Programs

- Revolving Loan Fund
- Manufacturing and Business Assistance
- Wood Products Development Service
- Knowledge Industry Network
- Springboard
- Other duties as needed and assigned (economic indicators, fisheries, Kensington)
**Revolving Loan Fund**

- RLF borrowers program to date sales and revenues have topped $80+ million, payrolls $38 million

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**Tracy’s Crab Shack & AJ Espresso—Key Bank**

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**Blackfeather Boats—First Bank**

Made in Juneau – 30’ catamaran

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“...Ms. LeBlanc’s expertise made this nearly twenty-year-old recliner into a beautiful piece of furniture that is not only updated but restored to good as new (or better) condition…”

Darlene Whitehorn
Petersburg

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Mission: To foster diversification and growth within Alaska’s wood products and woody biomass industries, thereby expanding the State’s economy, improving the utilization of forest resources, and retaining and creating jobs.
Knowledge Industry Network
Over 800 participants (400+ in Juneau)

“Your efforts are making a difference for our company. . . (at KIN Pub Nights) we’ve connected with our potential COO. Connected with our potential VP of Marketing. The potential COO has provided consulting services by generating perfect contracting documents that I have since used to land 4 jobs. The potential VP of Marketing is helping us gain access to a job at a local military installation. We thank you.”

-Brian Richardson, Surface Cleaning Technologies, CEO

“The Knowledge Industry Network has allowed me to meet up-and-coming young professionals in Juneau. For the American Red Cross of Alaska, we have been able to recruit volunteers and were involved in the health fair at UAS as a direct result of our involvement in KIN events. I have found this type of networking to be an invaluable help to integrating into the community of Juneau.”

-Shad Engkilterra, Director of Southeast District, American Red Cross of Alaska
Economic Development Takes Time

Supporting and working toward an economically and environmentally sound project for Juneau.

Alaska Protein Recovery, LLC.

Alaska Glacier Seafood

Kensington Mine
SpringBoard’s impact has been significant and is growing. This is exciting and good for Juneau and the region both for local opportunities and for statewide exposure.

55 month funded agreement signed with Wright Patterson AFB through the Office of the Secretary of Defense Technology Transfer Program (until 2011)

Mission:
To provide business and technical assistance to Alaskan companies to help them meet US Department of Defense needs through technology transfer by leveraging the resources of DoD laboratories and directorates.
CRADA signed with CRREL and SpringBoard to promote Cold Weather Concrete test demonstrations.

Intent to train industry on how to design, mix, test, place and cure antifreeze concrete.
Goals:

- Increase student interest and competency in Science, Technology, Engineering, and Math (STEM)
- Provide an “adequate supply of clearable, top-level talent in STEM disciplines” was noted by Deputy Under Secretary of Defense, Dr. Rees (September, 2006)
Value of Education $$
to the SE Economy

• $151 million on school operations in 2006

• $120 million (80%) = salaries & benefits that are reinvested in local communities

• School construction projects add jobs

• Current state funding proposals could bring an additional $2.3 million to SE each year for 4 years
Why invest in Science, Technology, Engineering & Math (STEM)?

“The competitiveness of US knowledge industries will be purchased largely in the K-12 classroom.”

-Rising Above the Gathering Storm

The issue: Our nation’s economic vitality “is derived in large part from the productivity of well-trained people and the steady stream of scientific and technical innovations they produce.”

-Rising Above the Gathering Storm, National Academies of Science, 2007
American students placed 23rd in science and 29th in math out of 40 industrialized nations participating in international testing.

-2003 Program for International Student Assessment exam

84% of U.S. middle school students surveyed would “rather clean their rooms, eat their vegetables, go to the dentist or take out the garbage than learn math and science.

-Raytheon Corporation survey

“As Alaska’s business and community leaders, you know how vital science, technology, engineering and math are to the future of our state and nation.”

What’s being done?

National Response:

America Competes Act signed into law on Aug. 9, 2007 by President Bush

✓ Bipartisan legislation that strengthens educational opportunities in STEM areas
✓ Funding for the National Science Foundation will almost double by 2011
✓ Invests in teacher training programs in math and science
What is JEDC doing?

DOD resources → Alaska Schools

Olga Mendoza, Mathematician
Airforce Research Laboratory Sensors Directorate
(JDHS Graduate)

Christopher Schrock, Aerospace Engineer
Aeronautical Systems Center
What is JEDC doing?

MWM

FIRST: For Inspiration and Recognition of Science and Technology

Science Olympiad

Juneau Economic Development Council
Program Focus

Students learn science by doing science
  – Hands-on, Minds-on Inquiry & Design
  – Rigor & Real World Applications
  →

Stronger workforce pool
  – Technologically savvy & mathematically competent
  – Creative problem solving & critical thinking
  – Hard-working
Springboard is a bridge for DOD, federal and private sector resources to partner with schools

K-12 Education is a critical element for a competitive economy in Southeast Alaska

JEDC programs are having a significant local, regional & statewide impact
Composites

A composite material is... a mixture or combination of two or more visibly distinct materials.

Composites are often designed to enhance the strength and stiffness of a material.
Your task is to design a fishing pole, made out of a composite material that is based on a plastic straw. The winning fishing pole will be strong, light, and have maximum flexibility.
Design Guidelines

• Your fishing pole must incorporate the straw provided.
• No fishing pole can be more than 0.5cm greater than the diameter of the straw
• All fishing poles must be the exact length of the original straw

Determining the winner:
The winning prototype will meet the following performance criteria:
• It is strong enough to hold 200 grams without failing.
• It is flexible enough to deflect at least 2 cm with a load of 20 grams.
• It is the strongest pole for its weight (max load / pole mass).
Moving Forward

What do you need from tomorrow’s workforce?

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