

TRP - Land
Other Programs CLDN
CJ
PP

TIRE TALK

en 79034

POLLUTION PREVENTION LIBRARY
1 - 810 BLANSHARD ST.
VICTORIA, BC
V8V 1X4

Environment Wins Twice with New Product

"Talk about environmentally friendly — our new product not only recycles scrap tires, it consumes tall oil pitch as well," says Roger Johnson, president of Infratech Polymers Inc.

His Langley firm was recently awarded an R2D2 grant for the development of an innovative road crack sealant. Their new product, dubbed "Bi-Crackee," uses finely ground crumb rubber and tall oil pitch, a waste by-product of the B.C. pulp and paper industry.

Bi-Crackee is being designed to improve highway surface water-

proofing. Sealing cracks on highways keeps water from getting into the roadway's base, and has proven to extend road surface life by up to five years.

Finely ground rubber crumb in "Bi-Crackee" provides anti-oxidants for longer life, while the tire carbon black helps protect the sealant from ultra-violet radiation.

"Our new process will use recycled tire crumb and tall oil pitch to produce a crack sealant that meets A.S.T.M. testing criteria," Johnson explains. "The product makes asphalt more flexible in low temper-

atures, which is particularly important when crack sealants are used in cold climates."

The R2D2 funding will enable the company to conduct a six-month development program, to be followed by intensive testing.

"Once Bi-Crackee gets into full production, we see a huge potential demand," says Johnson. "It will help meet an on-going need in highway construction, and could even start a major new industry in British Columbia. At present, over 90 per cent of crack sealant used in Canada

Continued on page 2

New Computer System Tracks Tire Movement

A new custom-designed computer program has given FIRST program managers the ability to track the some 200,000 tires that enter the recycling loop every month.

The tracking system is designed to identify areas of B.C. not being adequately served by tire transporters and enable program managers to promote more thorough collection routes.

To meet ministry audit requirements on program performance, Coopers & Lybrand introduced the software in April 1992 to monitor the FIRST program. Information taken from claims for financial assistance — origin of tires, volume, the processor they are destined for, and detail of that kind is entered into a database. The information is broken down to show how many scrap tires originated in each regional district in

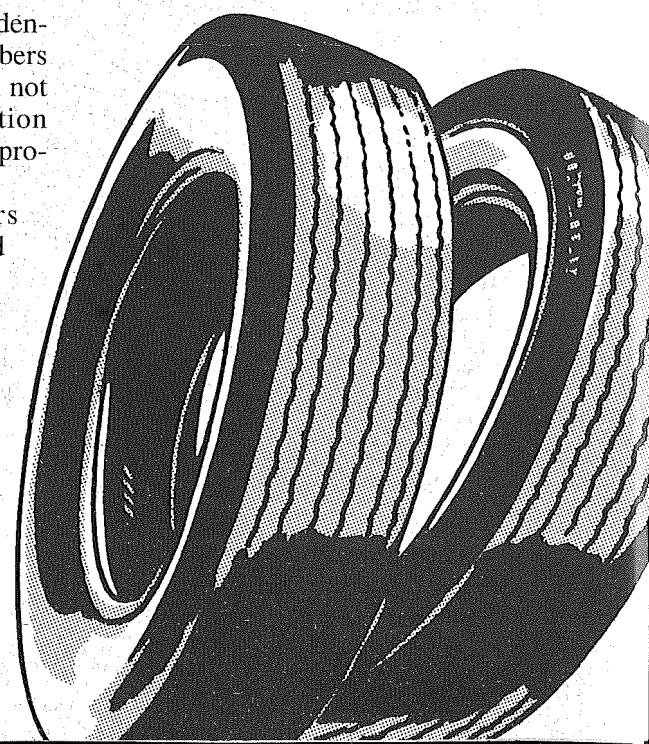
B.C., and is compared to the estimated total number of scrap tires generated in each regional district.

"This program enables us to identify areas where significant numbers of tires, for whatever reason, are not getting into the FIRST collection system," said B.C. Environment program advisor Brian Grant.

Tire collectors and haulers seeking new sources of, and available processing capabilities for, scrap tires are invited to contact Birthe Levie at Coopers & Lybrand in Victoria.

In addition to monitoring the FIRST program's effectiveness, the computer program also accommodates a system of checks and balances to prevent program abuses.

LIBRARY - MINISTRY OF FORESTS
PO BOX 9523 STN PROV GOVT
VICTORIA BC V8W 9C2



Second Round R2D2 Grants Spurs New Products

Another four B.C. companies have been awarded a total of \$322,500 under the Recycling Research Demonstration and Development (R2D2) program to help develop new products made from recycled tire rubber.

- N.E.A.T. (National Environmental Associated Technologies) Inc. of Kelowna has been sponsored to complete a market assessment to determine the viability of producing and marketing Terra Mat, a road mat produced from recycled tires, in B.C.

The mats are used to create or reinforce temporary and rough terrain roadbeds, and to reinforce ground surfaces at construction sites.

- Infratech Polymers Inc. of Langley has been provided a significant grant to develop an innovative road crack sealant using recycled

rubber and tall oil pitch, a waste by-product of the pulp and paper industry.

- Moore Roof Systems of Squamish will be assisted in continued development and certification testing of the company's roofing shingles.

- Target Conservation Company of Nanaimo has been offered assistance to develop "cats eyes" as reflective highway fixtures made from recycled tires.

The awards were decided by an eight-member peer review committee comprising industry, scientific and government representatives, which evaluated the applications.

The committee reports to the B.C. Science Council Awards Committee, which reviews the recommendations to ensure compliance with the approval standards for

all Science Council awards programs.

The Science Council and B.C. Environment are inviting applications for the next round of R2D2 grants. Eligible projects must demonstrate technical merit, potential to consume significant numbers of scrap tires, and economic benefits to the province.

Interested companies are also encouraged to explore the potential of collaborating with researchers at B.C. post-secondary institutions or other research organizations.

Interested people are invited to call Science Council awards officer Bernadette Mah to discuss the potential of their ideas, at 1-800-665-7222, toll-free.

Applications will be accepted until November 2, and recipients will be announced early in 1993.

Continued from page 1

is imported from the United States."

This year alone, the province of B.C. is expected to consume over two million linear metres of crack sealant that could incorporate rubberized asphalt. The total Canadian annual need for crack sealant is estimated at 18 million linear metres, and the American market is 10 times bigger.

Infratech Polymers Inc. has clearly defined goals for its marketing future. Johnson plans to launch the product in the fall of 1993, and projects first-year sales revenue of approximately \$200,000. The company expects to consume 60,000 pounds of scrap tire rubber that year.

By 1997, Johnson forecasts sales could exceed \$4 million, and account for 1.2 million pounds of recycled tire rubber.

Founded in 1989, Infratech Polymers Inc. has previously devel-



Road crews apply Infratech Polymers Inc.'s road crack sealant — a Canadian market of 18 million linear metres annually

oped and marketed two products incorporating recycled tires: a "peel and stick" pavement membrane designed to retard crack reflection on new pavement overlays, and an

asphalt rubber binder that produces a superior asphalt roadway.

The company markets in Canada and the U.S., and is planning to explore exports to the Pacific Rim.

Roofing Manufacturing Sets High Sales Target

Moore Roof System's second R2D2 grant will enable the company to begin mass production of its roofing tiles within six months, says company vice president Doug Ferris.

The company started its project two-and-a-half years ago, and now sees itself close to opening a plant in Squamish to start actual production in 1993.

"Our first R2D2 grant transformed our process from a concept into a proven practical reality," he says. "Now, with this second approved grant, we can probably get into actual production within the next six months."

The Squamish company was one of four successful applicants to the 1992/93 Recycling Research and Development (R2D2) program. The grant will fund further development of specialized equipment to manufacture roofing tiles for residential and commercial properties and cover costs of market research.

Moore Roof Systems' innovative product uses three-foot strips of tire as roofing shingles, connected by narrow metal strips. The rubber is installed "inside-out," with no tread

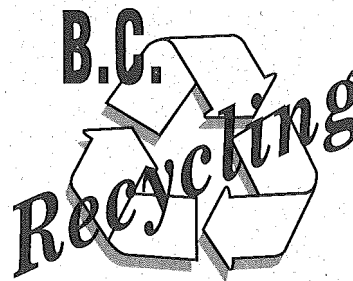
showing. Its appearance can be further enhanced by painting in a variety of colours.

The firm has installed a demonstration roof on a house in Squamish to test its physical qualities and appearance.

"When painted, our product looks very like metal roofing, but it doesn't have the problems of a metal roof," says Ferris. "In fact, when we sent a photo of it to the Canadian Construction Materials Centre, they

called concerned that we had sent them a picture of a metal roof instead."

Because their new roofing process demands such large volumes of rubber, it holds exciting promise for the province's recycling efforts. If the company gains its target of a three per cent share of the B.C. roofing market, it could consume two million tires annually — over 60 per cent of the scrap tires generated in B.C. each year.



HOT Line

B.C. Recycling Hotline operators are prepared to help callers with questions on the province's recycling activities and to fill requests for information packages on recycling programs. To replenish your stock of FIRST transportation credit or end use credit forms, call the B.C. Recycling Hotline at

1-800-667-4321 or in Greater Vancouver **732-9253**

RETURN REQUESTED
Coopers & Lybrand
777 Broughton Street
Victoria, B.C.
V8W 1E3

