

# The Rock Record 2004

Saskatchewan Geological Society

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Please contribute to the SGS  
Newsletter

The SGS Newsletter is produced by the SGS executive. Letters, announcements, notices, comments, photos, news and information about SGS members, etc. are always welcome. Call an executive member or write to us at:

**Saskatchewan  
Geological Society  
P.O. Box 234  
Regina, SK S4P 2Z6**

SGS e-mail address:  
saskgeologicalsociety@h  
otmail.com

All advertising inquiries should be directed to **Arden Marsh**

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**Wednesday, January 14, 2004**

### **Geoscience Applications for the Synchrotron**

**Tom Kotzer**

Industrial Liaison Scientist, Canadian Light Source Inc.  
University of Saskatchewan

#### **Lancaster Room, Royal Canadian Legion**

Cash Bar: 11:30; Lunch: 11:50

Meeting: 12:15 – 13:00

Members \$7.00, Non-members \$11.00

Contact: Arden Marsh 787-2499

By NOON, Monday Jan. 12, 2004

**Wednesday, January 28, 2004**

### **Options for Reclaiming the Abandoned Gunnar Uranium Tailings**

**Dennis W. Lawson**

Lawson Environmental Services Regina

#### **Lancaster Room, Royal Canadian Legion**

Cash Bar: 11:30; Lunch: 11:50

Meeting: 12:15 – 13:00

Members \$7.00, Non-members \$11.00

Contact: Arden Marsh 787-2499

By NOON, Friday January 23, 2003

**The SGS sends a special thank-you to D. M. Consulting Geologists for graciously providing the wine at this year's AGM and Awards Dinner.**

## **Geoscience Applications for the Synchrotron**

**Tom Kotzer**

Industrial Liaison Scientist, Canadian Light Source Inc.  
University of Saskatchewan

Abstract unavailable

For background information on the Synchrotron and its geoscience applications please visit the following website for Canadian Light Source Inc: <http://www.cls.usask.ca/science>

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## **Options for Reclaiming the Abandoned Gunnar Uranium Tailings**

**Dennis W. Lawson**

Lawson Environmental Services  
Regina SK

The abandoned Gunnar uranium mine is located on the north shore of Lake Athabasca near Uranium City in northwestern Saskatchewan. Mining commenced in 1955 and operations ended in 1964 with the production of five million tonnes of ore (tailings).

There is a flooded open-pit mine and four tailings areas. The open-pit mine connects to underground workings which extend under Lake Athabasca.

All of the tailings were pumped as an acidic slurry over a low divide near the mill into an adjacent small lake. This small lake, Blaine or Mudford Lake, is now entirely filled with exposed tailings. After escape of tailings, a rock containment dyke was constructed. Movement of tailings out of the end of the lake was prevented by a cycloned tailings dyke, which was allowed to erode in 1960, creating 2 small downstream tailings areas and the partial infilling of a prominent bay (Langley Bay) on Lake Athabasca as a tailings delta.

The talk will discuss potential reclamation options for the tailings. Further study is required and none of the options are as yet under consideration for implementation. Final selection would require integrated planning involving an environmental impact assessment, radionuclide pathways analysis and cost/benefit evaluations.

There will be three parts to the talk:

- a 20 minute movie (video) that was prepared by the mining company around 1960 which shows the mining operations, air lifting of yellowcake to Edmonton, and family life at the permanent townsite.
- Slides of black and white archival photographs of visiting provincial dignitaries (including Dr. Ralph Cheesman)
- slides of the facilities and tailings as they exist today.

## **2003 Annual General Meeting and Awards Dinner**

**Saturday, January 24, 2004**  
**Hotel Saskatchewan, Blue Lounge**

**Cocktails - 6:30 p.m.**  
**Dinner - 7:30 p.m.**

**Awards and Business Meeting - 9:00 p.m**

**Buffet supper and wine @ \$20.00 per person.**

For tickets, please contact Andrew Nimegeers (787-6984) or Arden Marsh (787-2499) prior to Wednesday, January 21, 2004.

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### **SGS Educational Rock, Mineral and Fossil Kits Available**

Many SGS members may be unaware of an excellent educational resource, the **SGS Mineral, Rock and Fossil Collection** that can be lent out upon request. The collection consists of three separate briefcases, categorized into minerals, rocks and fossils. Samples are clearly labeled and include brief descriptions to assist educators in presenting the materials. The kits are ideal for providing an introductory look at common minerals, specific rocks of the rock cycle and marine fossils. Members are encouraged to sign-out the collection for use in schools or any other educational setting. For more information or to request the SGS Mineral, Rock and Fossil Kits please send email to [saskgeologicalsociety@hotmail.com](mailto:saskgeologicalsociety@hotmail.com) or call **Andrew Nimegeers at 787-6984.**

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# SGS MEMBERSHIP RENEWAL – 2004

I, \_\_\_\_\_, wish to renew my membership in the  
SASKATCHEWAN GEOLOGICAL SOCIETY for 2004

MY STATUS IS (please check one):      ACTIVE     (\$25.00)      STUDENT     (\$5.00)  
     ASSOCIATE (\$25.00)      LIFETIME     (\$350.00)  
     AMATEUR     (\$25.00)

MY CURRENT MAILING ADDRESS IS:      No change from last year  
     New address (please print):

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Mail to:  
**Saskatchewan Geological Society**  
**P.O. Box 234**  
**Regina, SK S4P 2Z6**

SGS e-mail address:  
 saskgeologicalsociety@hotmail.com

**Please provide your e-mail**

**address:** \_\_\_\_\_

Your SGS newsletter will automatically be sent to you by e-mail as an attachment in MIME format. Note that you'll receive it sooner this way than by regular mail.

please check, if you **do not** want to receive the newsletter by e-mail

I am enclosing \_\_\_\_\_ along with the renewal form.

RECEIPT REQUESTED (please check, if required)

\_\_\_\_\_

(SIGNATURE)

THANK YOU!