

**YUKON**  
**EXPLORATION**  
**& GEOLOGY**  
**2005**

Edited by

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Yukon Geological Survey

Energy, Mines and Resources

Government of Yukon

Published under the authority of the Minister of Energy, Mines and Resources, Government of Yukon

<http://www.emr.gov.yk.ca>

Printed in Whitehorse, Yukon, 2006.

Publié avec l'autorisation du ministre de l'Énergie, des Mines et des Ressources  
du gouvernement du Yukon

<http://www.emr.gov.yk.ca>

Imprimé à Whitehorse (Yukon) en 2006.

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ISBN 1-55362-271-5

This, and other Yukon Geological Survey publications, may be obtained from:

Geoscience and Information Sales  
c/o Whitehorse Mining Recorder  
102-300 Main Street  
Box 2703 (K102)  
Whitehorse, Yukon, Canada Y1A 2C6  
phone (867) 667-5200, fax (867) 667-5150

Visit the Yukon Geological Survey web site at [www.geology.gov.yk.ca](http://www.geology.gov.yk.ca)

In referring to this publication, please use the following citation:

Yukon Exploration and Geology 2005. D.S. Emond, G.D. Bradshaw, L.L. Lewis and L.H. Weston (eds.),  
2006. Yukon Geological Survey, 339 p.

Production by K-L Services, Whitehorse, Yukon.

## PHOTOGRAPHS

**Front cover:** Jeff Bond is sampling stream sediments for heavy minerals in Mendocina Creek,  
Big Salmon Range. Photo by Amber Church, Yukon Geological Survey.

**Back cover:** Wally Hyde, Yukon's 2005 Prospector of the Year, receiving his award at the 2005 Yukon  
Geoscience Forum, November 2005. Photo provided by V. Fedoroff, Whitehorse Star.

## **PREFACE**

Yukon Exploration and Geology (YEG) continues to be the main publication of the Yukon Geological Survey (Energy, Mines and Resources, Yukon government). This is the 28th volume of the series.

YEG 2005 contains up-to-date information on mining and mineral exploration activity, studies by industry, and results of recent geological field studies. Information in this volume comes from prospectors, exploration and government geologists, mining companies and students who are willing to collectively benefit the scientific community, general public, as well as the mineral and petroleum industries of the Yukon. Their assistance and patience is sincerely appreciated.

Sincere appreciation is extended to the YEG co-editors. We were fortunate to have Leyla Weston rejoin the team this year; and Geoff Bradshaw and Lara Lewis also continued in this role. Thanks go to all of them for their help in making the editorial process effective, efficient and fun. We thank the Translation Bureau, Public Works and Government Services Canada for translating the French abstracts. Appreciation is also extended to Maurice Colpron of the Yukon Geological Survey (YGS) for his able assistance in the review of French translations of abstracts. We also thank all the geologists who contributed by critically reviewing YEG manuscripts: S. Sutherland, S. Traynor, L. Pigage, G. Bradshaw, C. Hart, J. Bond, L. Kennedy, S. Piercey, T. Lynch, D. Gibson, L. Groat, R. Friedman, R. MacNaughton, J. Scoates, J.G. Abbott and M. Burke.

Wynne Krangle and Peter Long of K-L Services continue to provide excellent service in putting this production together, including editing suggestions, design of diagrams, volume layout, and working under the pressure of a tight deadline. Sherry Tyrner of the Queen's Printer once again ensured that the printing process went smoothly.

The 2005 volume has four parts. The first – Mineral Industry – includes overviews of hardrock and placer mining, development and exploration in the territory as well as a summary of the Yukon Mining Incentives Program. The second part – Government – outlines the activities and organization of the Yukon Geological Survey, and includes announcements of the sixth Mining Land Use Reclamation Awards, the Robert E. Leckie Awards. The third part – Geological Fieldwork – contains reports describing regional mapping, and more detailed geoscience studies. The last part – Property Description – is meant for submissions from the mineral industry on mineral occurrences and deposits. This year there is only one paper on a mineral occurrence in the Mayo area.

We welcome any input or suggestions that you may have to improve future YEG publications. Please contact me at (867) 667-3203 or by e-mail at [diane.emond@gov.yk.ca](mailto:diane.emond@gov.yk.ca).

Diane Emond

## PRÉFACE

Yukon Exploration and Geology (YEG) continue d'être la publication principale de la Commission géologique du Yukon (Énergie, Mines et Ressources, gouvernement du Yukon). Ce volume est le 28<sup>e</sup> de la série.

YEG 2005 contient une mise à jour sur l'exploitation et l'exploration minières, les études réalisées par l'industrie et les résultats des travaux géologiques exécutés récemment sur le terrain. L'information est fournie par des prospecteurs, des géologues prospecteurs et du gouvernement, des sociétés minières et des étudiants qui veulent en faire bénéficier la communauté scientifique, le grand public, ainsi que les industries minières et pétrolières du Yukon. Nous apprécions leur aide et leur dévouement.

Nous tenons à remercier les co-rédacteurs du YEG. Cette année, Leyla Weston s'est jointe à notre équipe et nous avons continué à recevoir l'appui de Lara Lewis et de Geoff Bradshaw. Nous tenons à tous les remercier de nous avoir aidés à rendre efficace, efficient et amusant le processus de rédaction. Nous remercions le Bureau de la traduction, Travaux publics et Services gouvernementaux Canada, d'avoir traduit les résumés en français. Nous remercions également Maurice Colpron de la Commission géologique du Yukon pour son aide précieuse en matière de révision des traductions de résumés en français. Il faut aussi souligner la contribution de plusieurs géologues à la lecture critique des manuscrits, au cours de cette année; il s'agit notamment de S. Sutherland, S. Traynor, L. Pigage, G. Bradshaw, C. Hart, J. Bond, L. Kennedy, S. Piercey, T. Lynch, D. Gibson, L. Groat, R. Friedman, R. MacNaughton, J. Scoates, J.G. Abbott et M. Burke.

Wynne Krangle et Peter Long de K-L Services ont une fois de plus fourni un excellent service de production, incluant des suggestions de révision, la conception de diagrammes, la mise en page et le respect d'échéances serrées. Sherry Tyrner de l'Imprimeur de la Reine a, pour sa part, veillé au bon déroulement de l'impression.

Le volume de 2005 comprend quatre parties. La première – Industrie minérale – renferme des survols sur l'exploitation, le développement et l'exploration minières de roches dures et de placers dans le territoire, de même qu'un résumé sur le Programme d'encouragement des activités minières du Yukon. La deuxième partie – Gouvernement – décrit dans les grandes lignes les activités et l'organisation de la Commission géologique du Yukon, et présente la sixième édition des prix Robert E. Leckie, récompensant les meilleurs travaux de remise en état des sites miniers. La troisième partie – Travaux géologiques sur le terrain – contient des rapports décrivant la cartographie régionale et des études géoscientifiques plus détaillées. La dernière partie – Descriptions des propriétés – vise les présentations des sociétés minières concernant des occurrences et des gîtes minéraux. Cette année, on ne présente qu'une seule étude sur une occurrence minéralisée dans la région de Mayo.

Pour tout commentaire ou suggestion afin d'améliorer les futures publications du YEG, vous être priés de communiquer avec moi par téléphone au (867) 667-3203 ou par courriel à l'adresse suivante : [diane.emond@gov.yk.ca](mailto:diane.emond@gov.yk.ca).

Diane Emond



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# YUKON EXPLORATION AND GEOLOGY 2005

## GEOLOGICAL FIELDWORK

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## PROPERTY DESCRIPTION

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