



International Network for Acid Prevention (INAP)

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Summary



- **Who is INAP?**
- **INAP Members**
- **INAP Projects and Activities**
- **Best Management Practice Award**
- **ICARD 2018**
- **Global Alliance and their activities**



Who is INAP



An organization of international mining companies that seeks the prevention of acid rock drainage (ARD) and metal leaching in support of responsible mineral development:

- **Information and Technology Transfer**
- **Collaborative Research**
- **Organizing Conferences and Workshops**
- **Supporting Regional ARD Organizations**
- **International Best Practice Award**
- **INAP is a voluntary initiative by mining companies that has grown into a global network**
- **INAP's success is shown by the involvement of many stakeholders, including Global Alliance members, and their commitment to ARD prevention**

www.inap.com.au

INAP Members – Leading International Mining Companies



BARRICK

BHP



RioTinto

Teck



lundin mining

DETOUR GOLD

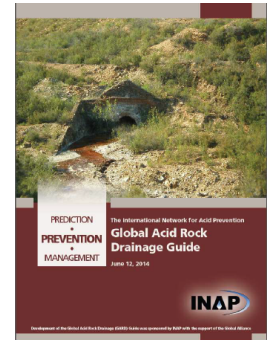
AGNICO EAGLE

INAP's Efforts to address the ARD Challenge



Facilitates the development and maintenance of globally-recognized, authoritative technical guides, such as:

- **GARD Guide (www.gardguide.com)**
 - “An international guide for facilitating world-wide best practice in prediction, control, and mitigation of acid rock drainage.”
 - “The guide is becoming a reference document for all stakeholders involved in ARD and waste management issues.”
- **Global Cover Systems Design Technical Document**
 - **Guidance Document, that is not a Prescriptive Approach and is consistent with GARD Guide**
 - **Provides a “Decision Tool” Approach**
 - **Links the theory with practice with site-specifics across all aspects**



ICARD 2018 Conference



- 3 short courses, 75 attendees total
 - Water Management for Mine Closure
 - Modelling of Pit Lakes
 - Mine Water Management and Treatment
- 331 delegates from 34 different countries
 - 145 (45%) from South Africa
 - Canada (31), Australia (24), USA (19)
- 3-day technical program
 - Plenary sessions each morning
 - Over 150 presentations
 - 25 posters
- Trade show with 11 exhibitors



Conference Proceedings



ICARD 2018 individual papers and/or the full ICARD proceedings (2-volume set) can also be downloaded from the following link:

<https://www.imwa.info/imwaconferencesandcongresses/proceedings/303-proceedings-2018.html>



ARD Best Practice Award



- **KINROSS** (Alessandro Nepomuceno) and **RioTinto** (Ros Green) were recognized for outstanding ARD Management Practice at a mining site and at the corporate level



ARD Best Practice Award 2021



- **Selection Committee revisiting criteria and details are being developed with specific timelines**
- **Two-stage process to be used for next round of awards that will be presented at ICARD 2021**
- **Companies do not need to be INAP members to be considered**
- **Information will be found on the website**



**HOPE TO SEE YOU
IN BRISBANE FOR
ICARD 2021**



**12th INTERNATIONAL CONFERENCE
ON ACID ROCK DRAINAGE**

Brisbane, Australia



Global Alliance



Global Alliance



- **The Global Alliance (GA) partnership, formed in 2003, is an international model of interaction among organizations involved in acidic drainage research.**
- **The GA brings numerous benefits to the regional groups, including**
 - **Increased networking between participants**
 - **Minimizing research duplication**
 - **Maximizing research dollars**
 - **Better understanding of capacity within GA community and better align/network ARD activities**
 - **Worldwide links, and**
 - **Enhanced technology transfer capabilities.**

MEND Program - Canada

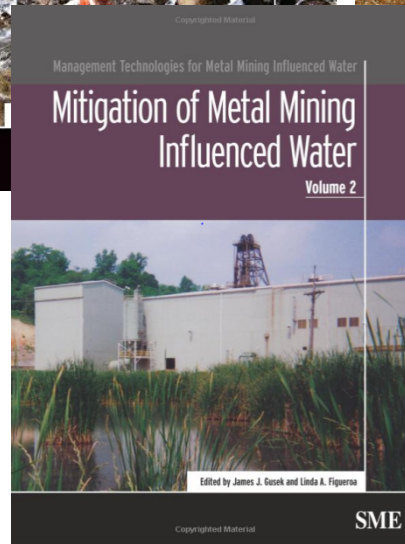
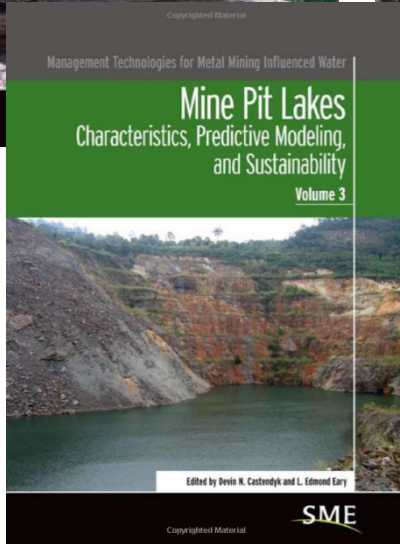
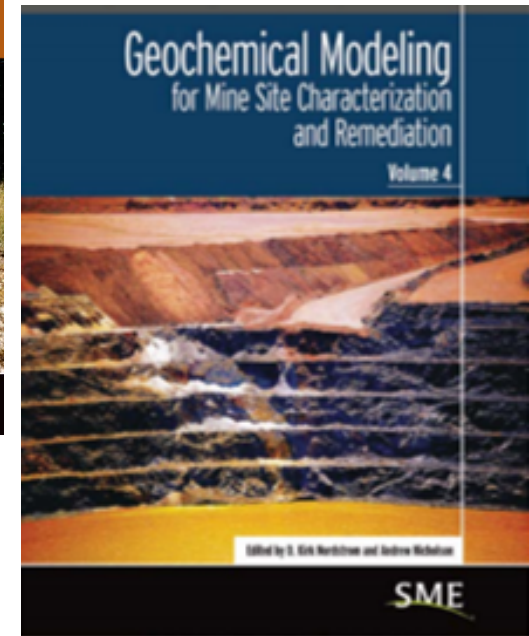
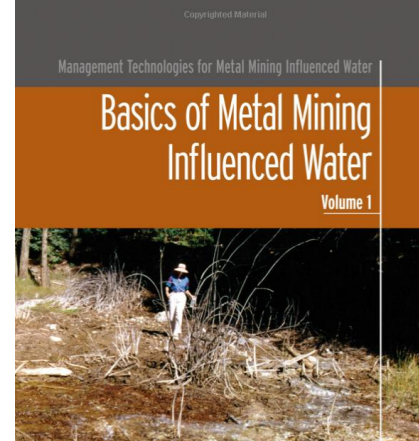
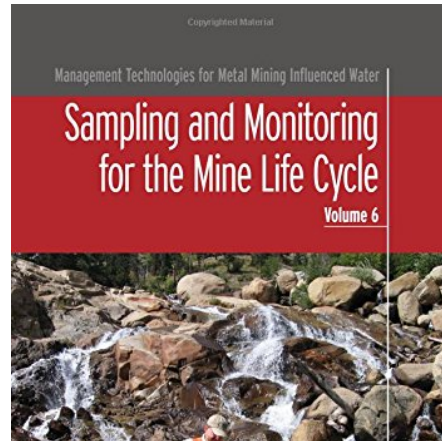
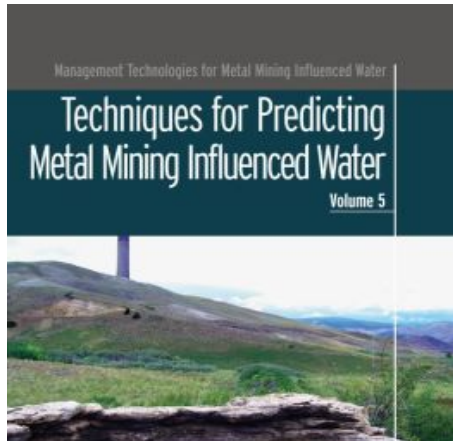


...to provide leadership and guidance on priority acidic drainage issues in Canada

- **1989 – 2018**
- **Extensive national and international multi-stakeholder network**
- **~\$21M**
- **Technology Transfer**
- **Annual BC MEND Workshop**
- **Over 200 technical documents**
- **Website: www.mend-nedem.org**



ADTI – USA Metal Mining Influenced Water Workbooks



SMI - INAP Australia



- **Lead for INAP Webinars on global scale**
- **Host for the Australian Workshop on Acid and Metalliferous Drainage held every 2 to 3 years**
- **Website and mailing list for Australia**
- **Strong interest in hosting next ICARD in 2021**



Australian Leading Practice Handbooks

- **Preventing Acid and Metalliferous Drainage**
- **Water Stewardship**
- **Tailings Management**

www.industry.gov.au/resource/Programs/LPSD/Pages/default.aspx

WRC and SANAP



Water Research Commission (South Africa)

- Host to various workshops
- Recently released an updated South African Mine Water Atlas
- Partner for the 2018 ICARD Conference



SMI-ICE-CHILE (South America)

- Newest member of the Global Alliance
- Developing website and mailing list for South America, starting with Chile
- Possible host to INAP Webinars in South and North American time zones



Conclusions



- **ARD management is critical & requires an ongoing plan throughout the mine life**
- **ARD management relies on mine operations & the engagement of all stakeholders including the environmental community**
- **INAP is a voluntary initiative by mining companies that has grown into a global network**
- **INAP's success is shown by the involvement of many stakeholders, including Global Alliance members, and their commitment to ARD prevention**

Contact



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Thank You!



*La cité de l'or
Val d'Or , Québec*

11th ICARD

South Africa

**IMWA 2018
Annual
Conference**

11th ICARD | IMWA 2018 Conference

International Conference on Acid Rock Drainage
International Mine Water Association
WISA Mine Water Division

10 - 14 September 2018

