

# EXTRACTION

2018



Proceedings of the First  
Global Conference on Extractive Metallurgy

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# **The Minerals, Metals & Materials Series**

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See next page

ISSN 2367-1181                      ISSN 2367-1696 (electronic)  
The Minerals, Metals & Materials Series  
ISBN 978-3-319-95021-1              ISBN 978-3-319-95022-8 (eBook)  
<https://doi.org/10.1007/978-3-319-95022-8>

Library of Congress Control Number: 2018947474

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The registered company address is: Gewerbestrasse 11, 6330 Cham, Switzerland

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# Preface

While Extraction 2018 may seem like another new conference, it was actually born out of a membership initiative within three societies to reduce the number of extractive meetings in 2018. Set for August 26–29, 2018, in Ottawa, Canada, Extraction 2018 is the industry’s first collaborative global metallurgy conference focused exclusively on extractive topics. As such, we hope it will allow attendees to take stock of the current situation in extractive metallurgy, where issues around geography, resources, environment, and human capital are all in play and making for an ever-changing landscape.

The conference has come to fruition out of the hard work from the staff of the three sponsoring societies. The Society for Mining, Metallurgy & Exploration (SME) has mobilized its team to manage the trade show and sponsorship, while The Minerals, Metals & Materials Society (TMS) has been instrumental in supplying the backbone of the conference for abstract management, author interaction, and marketing. The Metallurgy & Materials Society (MetSoc) of Canadian Institute of Mining, Metallurgy & Petroleum (CIM) organized the logistics for this conference while at the same time holding its first-ever annual meeting outside of Canada at Materials Science & Technology 2018 (MS&T18) in Columbus, Ohio. This opportunity has really allowed the extractive programming to come to Ottawa. The regular contact between societies has been beneficial for everyone and will have lasting positive impacts far after Extraction 2018 is over.

A large number of volunteers from each society were also critical to the organization of the symposia. Each one of them has volunteered considerable personal time to help develop, review, and organize the conference. This includes short courses, tours, and posters, as well as the technical symposia. Extraction 2018 is the home for several important recurring symposia that examine new developments in foundational extractive metallurgy topics and techniques. It also offers new programming designed to share the latest research and insights on emerging technologies and issues that are shaping the global extractive metallurgy industry. The symposia include: 7th International Symposium on Advances in Sulfide Smelting; Peter Hayes Symposium on Pyrometallurgical Processing; Hydrometallurgy 2018;

Gordon Ritcey Symposium: Advances in Hydrometallurgical Solution Purification Separations; Processing of Critical Metals; and finally, Sulfide Flotation.

The response to the conference has been very encouraging—a reflection of the fact that there are actually a number of high-quality symposia being brought to the conference, but also perhaps an indication of the extractive community's interest to meet once without the distraction of large shovels or nanomaterials. It was difficult to balance the number of abstract submissions with the desire to have a manageable conference, and hopefully, the right balance has been found.

It will be a lot to take in, but we hope that everyone will get as much as they can from the conference. When the dust has settled, we will take stock of how things went, and if the stars realign in the future, we might try to do this again. But for now, welcome to Extraction 2018—you are among friends.

Conference Co-chairs

Boyd R. Davis, Kingston Process Metallurgy Inc.

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**Pyrometallurgy Keynotes**