



Mining and Metallurgical Society of America

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President's Message Now and Into the Future!

At this recent SME Annual Meeting in Denver, I had the wonderful opportunity to see and talk with several incredible people who have been mentors throughout my career (starting all the way back to college). I am ever indebted to these gentlemen who have guided and encouraged me (and many others!) along the way. They, and the many others like them, have set examples for all of us in the industry of how to be good engineers, scientists and professionals and well-rounded people in every aspect of our lives.

In our conversations, I noticed one common thread in why they were so successful in their careers and personal lives. They do what they do because they love what they do. I know this applies to so many of us in this industry. We love what we do – who among you doesn't get excited when we see a mining project successfully come into operation or when we see a mining operation that is rolling along with all the pieces coming together with a single goal!?! In a nutshell, each of us plays a role in providing the minerals and metals that keeps our world running.

In starting my tenure as President of MMSA, I've started thinking about the role that the many mining industry organizations play in the process of successfully and responsibly producing these minerals and metals. I'm sure



Amy E Jacobsen
MMSA President, 2019-2020

that each of you can list at least five mining industry organizations without putting much thought into it. Why have all these organizations?

Every organization is unique and provides a link in the chain of processes necessary to produce minerals and metals, just as each technical discipline (geology, mining, metallurgy, environmental, and the myriad of other disciplines that are necessary) plays a role in building, operating and closing a mine.

Each discipline is intimately and intricately linked together. As an example, choosing an appropriate underground mining method is dependent on many factors that must be determined and understood by exploration geologists, other geoscientists and mining engineers. Not to mention the role that equipment manufacturers and regulators play in this one process (of the many needed to devel-

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op the overall mining project). This is also how our many organizations should be working together. Each organization brings something unique to the table.

MMSA is no exception. Our By-Laws clearly state that our objectives are:

“The Society shall seek as its primary objectives to serve the National Welfare of the United States of America as it relates to the Mineral Industries. Without limiting the generality of the foregoing, this may involve such collateral fields as:

- The advancement of the Mining and Metallurgical Industries,
- The better protection of mining and metallurgical investors and workers
- The responsible development of mineral resources

- The increase and promotion of scientific knowledge in fields related to the Mineral Industries
- The encouragement of high professional ideals and ethics.”

These are broad objectives and, at the same time, may be construed as being somewhat restrictive. They provide a basic roadmap as to what MMSA is all about. There is a lot of room for interpretation, but the beauty is the fact that MMSA’s membership can and is obligated to provide that interpretation.

In the past year, it came to the attention of MMSA’s leadership that MMSA needed to take an inward look to see how we were doing in meeting these objectives and to determine what we needed to do going forward. There were many options available, including merging with another organization. Without these inward assessments, every organiza-

tion runs the danger of becoming irrelevant. The world is littered with examples of companies and groups that did not effectively go through this process – for example, Sears and Blockbuster. They failed to see their changing world and to appropriately respond to those changes.

In going through the process, we realized that, like the geologist and the mining engineer, we cannot operate in isolation nor can we simply rest on our past accomplishments. As a result, the Collaboration Committee was established. This group will be charged with looking for ways that we can actively pursue opportunities to collaborate with other organization to meet our objectives and to facilitate these other groups in meeting their objectives. This is not just limited to the organizations within the mining industry!

We realized that this couldn’t be driven only by the ideas and thoughts of the MMSA leadership team, but that it had to be driven by the ideas and desires of our membership. Afterall, we are a membership organization! In January, we completed a member survey so that the future actions of MMSA would be driven by its membership. We had a nearly 30% response to this survey – this clearly shows the interest and dedication of our membership. The results of this survey will be shared in a future newsletter.

So now what? We are looking for ideas, input and volunteers to plot our future. If you are interested in participating or in sharing thoughts and ideas, please reach out to either Betty Gibbs or me. I am looking forward to the adventure of the next two years as we continue to interpret the MMSA objectives in such a way that we will continue to grow the relevance of MMSA in our industry and world - now and into the future!

Membership Applications

New Regular and QP Member Applications:

The following individual(s) have submitted membership applications and or changes to their membership status. They have either received approval of the Membership Committee as candidates or are currently under review:

If any member of MMSA has good cause to believe that any of the applicant(s) should not be granted Regular membership or QP membership, as appropriate, you are requested to make known your objections, in writing, to **Betty Gibbs**, Executive Director, within 30 days from issue of this Newsletter. In the absence of any objections and after receiving approval of the various committees, the candidate members and those members requesting a change of status will be confirmed as Regular Members or QP Members, as provided by the ByLaws.

<u>Applicant</u>	<u>Endorsers</u>	<u>Applicant</u>	<u>Endorsers</u>
Chris Barlow	Stuart Sanderson Jill Nelson Robert Bolle (Supervisor)	Pierre Lassonde	Bob Schafer Tom Albanese Wayne Murdy (Colleague)
Darrel Cameron	Betty Gibbs Barney Guarnera Robert Cameron		

QP Applications

No new QP applications

Area of Special Expertise

MMSA News

Annual Meeting

A new slate of officers was approved at the Annual Meeting and were installed.

Meet the new officers.

President, Amy Jacobsen, degree in metallurgy, but working more in mine valuation; Chair of Behre Dolbear. MMSA Member since 2002.

Vice President, Mick Gavrilovic, mechanical engineer; manager of product development for GR Engineering Services. MMSA Member since 2015

Secretary, Jack McPartland, metallurgist; VP Operations for McClelland Laboratories. MMSA Member since 2008.

Treasurer, Chris Wyatt, mineral engineer and mineral economist; working for Behre Dolbear and private

consulting. MMSA Member since 2009.

Ex-Officio (Past President), Michael Blois, metallurgist; working for Jacobs Engineering. MMSA member since 2008.

In addition, several Councilors agreed to continue and new Councilors were elected. See the first page side bar for the full list.

The full Annual Meeting packet is available on the Web site. The meeting lasted about an hour because everyone wanted to get to the reception and dinner.

Annual Dinner

The Annual Dinner was held at the University Club in Denver. This is a charming old building and our favorite place for the dinner when the SME is in Denver.

Presidential citations were presented to:

- Dennis Ferrigno for his chairing of the AML conference committee
- Susan Wager for her work on both the 2018 and 2019 AML conferences.
- Bob Cameron for his help on the QP Committee and other committees

•Laura Skaer for help on the AML conferences

And of course, the highlight of the evening was presentation of the MMSA Gold Medal to Pierre Lassonde. Bob Schafer, Chair of the Gold Medal Selection Committee, nominated Mr. Lassonde and introduced him before presenting him with the Gold Medal.

Mr. Lassonde gave a fabulous talk with humorous stories from his many experiences. He also brought an original copy of *De Re Metallica*—signed by Herbert Hoover. This was an exciting addition to the evening! Several people had their pictures taken with the book.

See the MMSA Web site for more about Pierre Lassonde and his reading from *De Re Metallica*.

Many thanks to all who attended the dinner and helped make the evening so memorable. Thanks to all the SME people, Newmont people, and all the special guests who attended.

Mr. Lassonde commented later: “It was a glorious evening and I thank you for all you did to make it perfect.”

Membership Update

The following changes in membership have taken place since the last newsletter, with the authority of the respective membership committees.

Regular Member Additions:

Nitin Laddha

QP Members Confirmed:

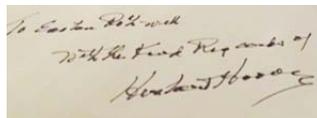
Nitin Laddha, Mining, Mineral Valuation, Finance

Membership Deletions:

None

MMSA presently has a total of **349** members, **3 in process**. Currently, **204** members are QP members

Additions, deletions and routine changes to the Society’s data base and member biographies are accessible through the Members Only page in our web site, at www.mmsa.net This data base is the best source for information on any particular member.



Bob Schafer presents the 37th MMSA Gold Medal to Pierre Lassonde.

Other MMSA Activities during the SME Annual Meeting

MMSA purchased 16 tickets for the SME Foundation dinner and hosted 10 Young Leaders from the SME program. Professionals who are 35 years or younger, demonstrate great leadership skills, and currently working in the mining industry are eligible to join the Young Leaders program. These are dynamic young people and we were impressed with their energy and dedication to the mining industry. This is the first year MMSA has supported these young engineers at the SMEF dinner and it will likely continue.

The two recipients of the MMSA/SME Scholarship were Caley Brooks and Lucas Maseth. Lucas was not at SME, but Caley joined us at the two tables.



Amy Jacobsen, MMSA President, with Caley Brooks, MMSA/SME Scholarship Recipient.

Many thanks to Jack McPartland who worked with Tom Rauch to identify those who were offered the tickets. We will be staying in touch with these Young Leaders as they develop in their careers.

Committee Updates

The **Membership Recruitment Committee** headed by Bill Wilson produced a membership recruitment brochure. The brochure was completed in time for the SME Annual Meeting. Many copies were given out at the exhibit hall booth and at the dinners.

Collaboration Committee. The Committee met in Denver on January 11, 2019 to finalize the Exploratory Committee report and define talking points to be presented at the Council Retreat on January 12. The decision of the Committee was to actively seek collaboration with other organizations. The report was presented to the Council and the recommendations were approved.

Amy Jacobsen as the new President will be defining new committees during the next couple of months. More detail will be coming soon on a new committee structure.

A sneak peek at the new committees: Several subcommittees will be proposed under the umbrella of the Goals Committee as defined in the ByLaws. This is still in the conceptual stage and will be discussed in upcoming Council deliberations. Initial thoughts are for as many as five subcommittees.

Volunteers will be needed for the new committees. If you have particular interests, contact the MMSA office to be added to the list.

We are thankful for all those who are currently serving on committees! Your input has been valuable

and we hope you will continue as the committees and responsibilities are shifted around.

Advancing Abandoned Mine Land Cleanup—With or Without Good Samaritan Legislation.
Reno NV April 9, 2019

The AML Conference Committee has been working hard on plans for the conference to be held in Reno Nevada on April 9.

Speakers have been selected and the program has been solidified. The current status of Good Samaritan Legislation proposed in the Senate will be discussed. Several panels are being organized that address:

- EPA’s Efforts to use all administrative tools to encourage Good Samaritan Remediation of identified AML sites.
- Stakeholder insights on AML cleanup - What works, what doesn’t work, and greatest challenges.
- A high-level overview of remediation technologies, products, and field techniques used in AML cleanup.
- Stakeholder insights on key metrics needed for successful AML cleanup.
- Perspectives on site characterization, measuring results for release, possible release mechanisms and building partner-

QP seals are available from MMSA.

The seal comes as a self-inking rubber stamp and the stamp is about 1 high by 2.6 inches wide. The stamp has the MMSA logo, member name, and member number. The cost is \$35, including shipping. To order a QP seal, contact the MMSA office or order directly from the MMSA Web site (www.mmsa.net/payments). The QP seal is in the Products category.

2008 MMSA Centennial Medallions are available for the great price of \$40. The coin has 1 oz of silver and 24 carat gold plating. Contact MMSA office to order.



ships and collaborations.

- Site characterization and release metrics, as well as liability release vehicles.
- List of possible pilot/ demonstration sites.

Breakout discussions at the end of the day will consolidate ideas and explore possible solutions to legal and environmental issues.

If you plan to go, get your tickets now! The conference is only a few weeks away.

Tickets are free and available at: <https://www.eventbrite.com/e/advancing-abandoned-mine-land-cleanup-with-or-without-good-samaritan-legislation-tickets-57022823801>

See the MMSA Web site for the latest.

Other Events

SME's 7th annual Current Trends in Mining Finance Conference (CTMF) 2019 Connecting Mining, Finance & Engineering Executives New York City April 28 to May 1, 2019

Meet all and hear mining, finance, investment and engineering experts evaluating, advising and financing mining projects world wide

Hear about the latest trends from leaders advising miners and explorers with managing non-technical, social, technical and financial issues and risks to raise capital.

<http://community.smenet.org/currenttrendsinminingfinance/registration?ssopc=1>

Legislative

S.47 - John D. Dingell, Jr. Conservation, Management, and Recreation Act

<https://www.congress.gov/bill/116th-congress/senate-bill/47>

Bill Summary: This bill sets forth provisions regarding various programs, projects, activities, and studies for the management and conservation of natural resources on federal lands.

Specifically, the bill addresses, among other matters:

- land conveyances, exchanges, acquisitions, withdrawals, and transfers;
- national parks, monuments, memorials, wilderness areas, wild and scenic rivers, historic and heritage sites, and other conservation and recreation areas;
- wildlife conservation;
- helium extraction;
- small miner waivers of claim maintenance fees;
- wildland fire operations;
- the release of certain federal reversionary land interests;
- boundary adjustments;
- the Denali National Park and Preserve natural gas pipeline;
- fees for medical services in units of the National Park System;
- funding for the Land and Water Conservation Fund;
- recreational activities on federal or nonfederal lands;
- a national volcano early warning and monitoring system;
- federal reclamation projects; and
- search-and recovery-missions.

In addition, the bill reauthorizes the Historically Black Colleges and Universities Historic Preservation Program and the National Cooperative Geologic Mapping Program.

This bill has passed the Senate and the House with more than 2/3 majorities. The following comment is from Rep. Raúl M. Grijalva (D-Ariz.), Chair of the House Natural Resources Committee:

“Chair Raúl M. Grijalva (D-Ariz.) cheers the passage of the historic Natural Resources Management Act, a bipartisan conservation and public lands package that includes permanent reauthorization of the Land and Water Conservation Fund (LWCF) and designates approximately 1.3 million acres of wilderness, 693,000 acres of recreation and conservation areas, and two mineral withdrawal areas totaling 370,000 acres, protecting nearly 2.4 million acres of public lands in total from future mining operations. “

Rep. Grijalva’s interpretation is a variation on the stated summary of the bill’s provisions.

CERCLA 108(b) Update

From the Utah Mining Association. “Earthjustice, on behalf of 6 other organizations recently filed their reply brief in their lawsuit challenging the U.S. Environmental Protection Agency’s (EPA) final action not to promulgate financial responsibility requirements under CERCLA 108(b) for the hardrock mining industry.

In November, the Utah Mining Association joined nine other state mining associations and the American Exploration & Mining Association in filing an amicus brief in support of the EPA’s final rule. “