



Mining and Metallurgical Society of America

P.O. Box 271794

Phone: 720-203-2380 • Web site: www.mmsa.net

Email: contactMMSA@mmsa.net

2022 Annual Meeting

Annual Meeting Agenda

Friday, March 25, 2022

Zoom Call

Time: 9:00 a.m. MT

Introductions – Mick Gavrilovic

Pledge of Allegiance

Safety Share

Item 1. Annual meeting minutes 2021

Summarize and approve 2021 Annual Meeting Minutes. – Jack McPartland

Item 2. Elections and Membership

a. Statement of Quorum - need 68 (20% of 337) in attendance and by proxy.

b. Officer and Councilor Election

Officer and Councilor candidates:

2022 Officers

President: Mick Gavrilovic

Vice President: Jack McPartland

Secretary: Andrea Brickey

Treasurer: Chris Wyatt

At Large Councilor candidates (Terms expire at the end of 2022.):

Dayan Anderson

Barney Guarnera

Xavier Ochoa

John Head

Colorado Section Councilors:

Jurgen Brune

Betty Gibbs

Mike Gingles

Bill Wilson

c. 2021 Membership report – Judy Colgan

Item 3. Society Financial Report

3a. Treasurer's Report for 2021 (Chris Wyatt)

Attachments: Financial Review - Exhibits I to VIII.

3b. 2021 Audit report submitted by Don Eldhart

3c. Assignment of Audit Committee for 2022 financial records. Mick Gavrilovic. (TBA)

3d. Jackling Fund Report - Introduced by Chris Wyatt

Donations made from the Jackling Foundation and MMSA operating fund in 2021.

Mining Foundation of the Southwest	\$2,500
Mineral Education Coalition	\$20,000
Women's Mining Coalition	\$5,000
Mountain States Legal Foundation	\$5,000
Colorado Mining Exhibit Foundation	\$2,500
National Mining Hall of Fame	\$4,225
Total	\$39,225

3e. Minerals Education Coalition – Announcement of 2022 donation.

Item 4. Committee Reports

- a. Quality Membership – (*Jack McPartland*) focus of the committee as attracting quality leadership and membership to industry, as well as facilitating innovation and technology.
- b. The Next Big Thing – (*Mike Gingles*) discussion of Due Diligence and what is next for the committee.
- c. Government Committee – (*Betty Gibbs*) Webinar Presentations and proposal for on-site conference in DC.
- d. QP Enhancement Committee – (*Betty Gibbs*) Webinar report for ESG series and all other Webinars presented.
- e. AML committee – (*Ann Carpenter*), AML Summit, Phoenix, AZ April 6-7
- f. QP Approval Committee – (*Mike Blois*).

Item 5. Other business.

5a. *Website Update* Betty Gibbs.

5b. *Colorado Section Report*. Bob Cameron, Bill Wilson.

5c. *Committee Appointments*

See the Attached Committees section

Item 6 Adjournment

Attachments:

2021 Annual Meeting Minutes

Membership Report

Treasurer's Report

Financial Exhibits I through VIII

Audit Report

Jackling Fund Report

Webinar Summary

Committee Reports



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2021 Annual Meeting Minutes March 24, 2021

The virtual meeting started at 1:10pm MT on March 24, 2021 and was held on the Zoom platform. 34 members attended.

2020 Minutes

Jack McPartland presented a summary of the 2020 Annual Meeting minutes. Terry McNulty made a motion to accept the minutes as presented. Jack seconded. The minutes were approved.

Quorum

A quorum was declared between the on-line attendance and proxies received.

Elections

The following officers and councilors were presented for approval. This was based on the existing officers all agreeing to stay in the same offices for one additional year.

Officers:

President: Amy Jacobsen
Vice President: Mick Gavrilovic
Secretary: Jack McPartland
Treasurer: Chris Wyatt

Councilors: (The following agreed to continue as Councilors for at least a year.)

Colorado Section -

Jurgen Brune
Michael Gingles
Bill Wilson

At Large -

Dayan Anderson
Barney Guarnera
John Head
Xavier Ochoa
Andrea Brickey

Andrea Brickey was also proposed as Secretary-in-Training.

Bob Cameron moved for approval of all officers and councilors. Dave Abbott seconded. All officers and Councilors were approved.

Steve Arnold and Steve Hearn stepped down as Councilors.

Member Report

Betty Gibbs gave a short member report in the absence of Susan Wager, the Executive Director. Membership at the end of 2020 was 335 members with 201 being QP members.

Two members passed during 2020: George Burgermeister and Richard Bullock. A moment of silence was observed.

Jackling Fund/Foundation

Chris Wyatt reported that the Jackling Fund (Foundation) was doing well and had a balance of approximately \$1.2 million.

Donations made from the fund included the following approved amounts:

Minerals Education Coalition: \$20,000

Mountain States Legal Foundation: \$5,000

CMA Education Foundation: \$2,500

A donation is usually made to the Women's Mining Coalition (WMC), but a donation was not made because a Fly-In was not to be held in 2021. Debbie Struhsacker thanked MMSA for past support of WMC. In the past, MMSA paid expenses for several women to attend the DC Fly-Ins. At present WMC is doing virtual meetings with legislative staff. MMSA also became a Corporate Sponsor of WMC.

Funds are reserved to support the Abandoned Mine Land Symposium, but it has been cancelled for 2020 and 2021. The funds will be held until the meeting can be held in person.

Ta Li suggest that MMSA get descriptions of what the organizations do with money donated.

Tom Aldrich (Executive Director, Mining Foundation of the Southwest) said that the MMSA donations go directly to the Lowell Institute. They are aiming to raise \$90,000. Amy asked Tom to send a request for funding for 2021/2.

Bob Cameron asked if the Colorado Mining Exhibit Foundation would be given a donation. The donation comes from the Colorado Section as requested by the Section.

Education Foundation

The Education Foundation has a cash balance held in a Wells Fargo bank account. No donations were made in 2020.

Committee Reports

Quality Membership Committee. Jack McPartland talked about the mentoring program for young professionals that is being instituted by the Quality Membership Committee. The purpose of the Committee is to recruit MMSA members and is looking for ideas. He requested member volunteers who would mentor. Graduate students with industrial experience are also good member candidates.

Next Big Thing. Mike Gingles reported that the committee is working on best practices for due diligence. A 2-page document has been prepared. A 90-minute Webinar is planned for April 23 with guest speakers. The committee is looking for feedback from industry. Due diligence is increasingly important, and the committee has made some progress.

Government. Amy thanked Debbie Struhsacker for letters she has written. Several Webinars were held during 2020. Details are on the MMSA.net Web site.

QP Enhancement. The committee was active with planning and conducting Webinars. A webinar about S-K-1300 was held on December 11, 2020 and several more are planned.

Abandoned Mine Lands. Dayan reported that the physical summit has been postponed until 2022 when it can be done in person. They have a great lineup of speakers for the Arizona meeting. The committee plans a ½ day Webinar on April 19. They will have speakers from Midas/Perpetua, the Nature Conservancy, Trout Unlimited, EPA (invited, not confirmed), and others from industry. They are trying to work with more NGOs.

Continuing Professional Development. Betty reported that members submitted their hours and all were approved by the auditors. [Jack, I don't have detail on that. It was probably lost with my computer crash last fall.]

Colorado Section. Bob Cameron reported that there were no Section meetings since March 2020. The section hasn't done anything since then. He has heard good feedback about the free Webinars. Bill noted that there are no section dues and the section is self-sufficient. Bob would like to start meetings again in the fall and needs volunteers for speakers.

Utah Section. Mick McCaslin said the Utah members organize virtual conferences with SME.

Jack made a motion to adjourn. The meeting adjourned at 2:10 p.m. MT.

Respectfully Submitted,
Jack McPartland

Attendance:

Amy Jacobsen
Andrea Brickey
Bill Wilson
Len Harris
Ta Li
Terry McNulty
Stan Dempsey Sr.
Chris Wyatt
Dayan Anderson
Jim Beck
John Thompson

Karen Jass
Pat Gochnour
Mike Blois
P. Tukkaraya
Bob Cameron
Sam Arentz
Tom Aldrich
John Head
Jack McPartland
John Reiss
John Uhrie
Mary Little

Mike Gingles
Joe Schlitt
Xavier Ochoa
Zeval Aytas
Curtis Clarke
David Abbott
Robert Gow
Patrick Williamson
Heather Lammers
Debbie Struhsacker
Jurgen Brune



Mining and Metallurgical Society of America

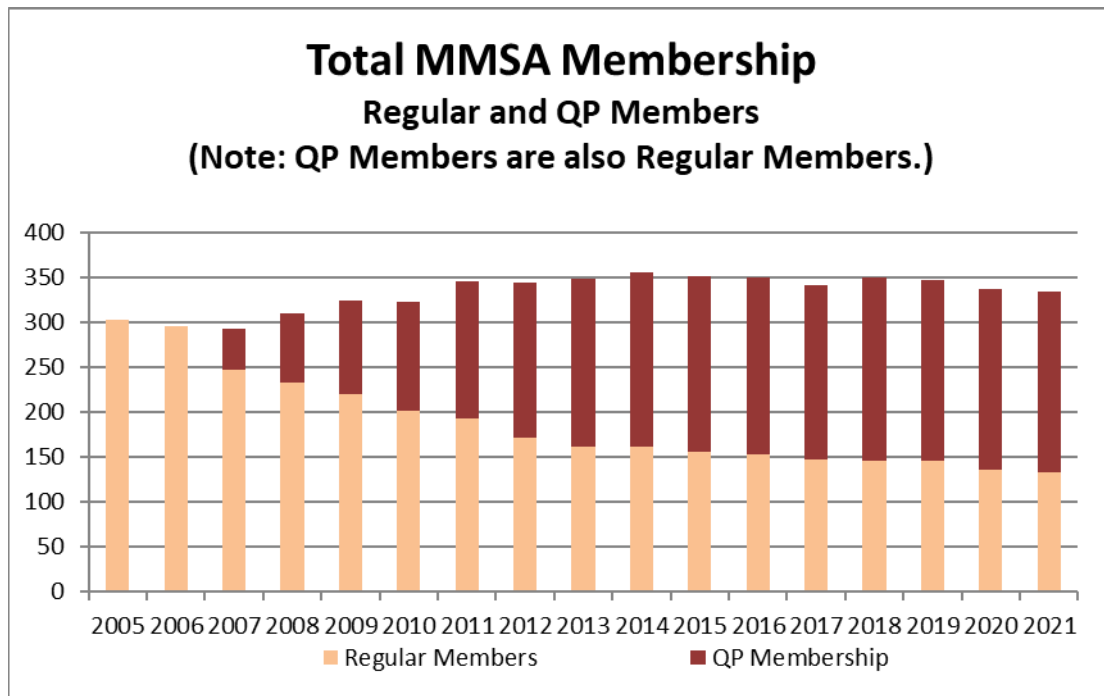
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March 25, 2022

2021 MMSA Membership Report

MMSA had 334 total members at the end of 2021 of which 201 were QP members. 12 applications were still in process, and 1 reinstatement. 10 of those applications are QP.

A total of 12 members were deleted during 2021: 8 resigned and 4 were deceased. Members deceased in 2021 included Michael Martin, Laurence Stevens, J. David Lowell, and Richard Bullock.



Members come from a wide range of backgrounds and are involved in the mining industry in many capacities. 28 members live in other countries, including Australia (3), Canada (7), Mexico (10), UK (2), and one member each in Italy, Morocco, Brazil, Peru, Malaysia, and China.

The MMSA Qualified Professional is recognized in Canada, South Africa, and Australia. By association with Australia, the Hong Kong and Singapore exchanges recognize MMSA QP members. Every year MMSA submits a report to the regulating agencies about the status of the MMSA QP program.

Some members have QP status in more than one category.

Sections:

Colorado remains MMSA's primary active section. The Arizona and Nevada sections are considered inactive but do have section contacts. The Utah Section has been combining meetings with the SME Utah Section.

QP Committee

The QP Committee approves an applicant's QP category. The QP Committee at the end of 2021 includes the following:

Mike Blois (past President, Chair, Project Infrastructure)
Barney Guarnera (past president), Geology, Ore Reserves, Mineral Valuation, Finance
David Abbott, Geology, Ore Reserves
Pat Gochmour, Environmental
Robert Cameron, Mining, Ore Reserves
Jaye Pickarts, Metallurgy/Processing
Bill Wilson, Environmental

The QP Committee has been meeting regularly the first Monday of every month to review QP applications. The Committee started a policy of interviewing all QP applicants by telephone before the final approval. Several QP applicants who had selected two or more categories decided to drop one or more. The Committee denied categories to several applicants while approving at least one category.

A handwritten signature in black ink that reads "Judy Colgan". The signature is written in a cursive, flowing style.

Submitted by Judy Colgan, Executive Director



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TREASURER'S REPORT Year Ending Dec. 31, 2021

The **Society** showed an operating gain on an accrual basis of \$30,378 compared to a gain of \$13,959 in 2020 (Exhibit I). Comparing the accrual basis results, the year-over-year change in net income shows an increase of \$16,419. Expenses decreased by \$15,352 to \$29,050 in 2021 and revenues increased by \$1,066 to \$59,427. Examining the major changes, no annual meeting in 2021 and the use of Zoom for meetings resulted in decreases in both meeting expenses of \$7,024 and promotion expenses of \$2,433. Social media expenses increased by \$1,073.

The **Society's** Balance Sheet (Exhibit II) calculated on an accrual basis shows a year-end 2021 asset balance of \$93,126 compared to the year end 2020 asset balance of \$80,356. Of this, \$76,208 was in our checking account, \$3,393 was held in our savings account, with an additional \$1,000 in transit to the checking account. Outstanding liabilities at year-end 2021 totaled \$36,398 compared to year-end 2020 liabilities of \$53,855. The largest component of the liabilities at 12/31/2021 is the \$36,348 of unearned revenue that is associated with membership dues for the 2022 calendar year. At 12/31/2020, unearned revenue totaled \$46,933.

In the 2021 calendar year, member donations and MMSA support of \$2,600 was transferred to the Jackling Foundation's checking account from the MMSA Operating Account. In summary, the financial condition of the **Society's** operating account continues to remain sound at year-end 2021.

At year-end 2021 the **Jackling Foundation's** assets totaled \$1,292,958, up from \$1,212,779 at year-end 2020 (Exhibit IV). There was a single liability as of 12/31/2021 for \$1,300 due to a deposit error that was corrected in 2022.

Dividend income, interest, and capital gains distributions for the **Jackling Foundation** totaled \$58,923 during the year (Exhibit III). Disbursements for donations decreased by \$7,225 in 2020 to \$39,225. A net gain for the year totaled \$78,879 as shown in Exhibit IV. Expenses, excluding discretionary disbursements totaled \$9,153 (Exhibit III). Details of disbursements from the **Foundation and the Society's operating account** to six organizations which the **Society** supported during 2021 total \$39,225 and are shown in Exhibits IV and VI of the accompanying financial report.

Exhibits VII and VIII summarize the results of the MMSA Education Foundation for calendar years 2020 and 2021. Donations from members during 2021 totaled \$1,550. In 2021, no donations to other charitable organizations were made. The \$1,550 net income for 2021 increased the Foundation's net assets to \$10,466.

Respectfully Submitted,
Christopher Wyatt, Treasurer
March 23, 2022

Exhibit II

**MINING AND METALLURGICAL SOCIETY OF AMERICA
SOCIETY -- BALANCE SHEET 12/31/2020 AND 12/31/2021**

Accrual Basis

ASSETS:

	<u>12/31/20</u>	<u>12/31/21</u>
Checking Account Balance	58,094	76,208
Savings Account Balance	3,393	3,393
PayPal Account Balance	3,737	
Deposits in Transit		1,000
Accounts Receivable - Dues/Other	2,527	
Inventory - Medallions	5,400	5,320
Gold Medals ¹	7,205	7,205
Total Cash, Bank Accounts, and Other Assets	<u>80,356</u>	<u>93,126</u>
Total Assets	<u>80,356</u>	<u>93,126</u>

LIABILITIES & EQUITY:

<u>Liabilities</u>		
Accounts Payable	4,375 ²	4,575 ³
Accounts Payable Jackling Foundation	2,488	475
Deferred Revenue for 2021, Dues	46,993	
Deferred Revenue for 2022, Dues		31,348
Total Liabilities	<u>53,855</u>	<u>36,398</u>
<u>Equity</u>		
Beginning Net Worth with Prior Adjustment	12,541	26,350
Income for the Year	<u>13,959</u>	<u>30,378</u>
Closing Net Worth	26,500	56,728
TOTAL LIABILITIES & EQUITY:	<u>80,355</u>	<u>93,126</u>

¹ Gold medals are reported at adjusted costs.

² 2020 Accounts Payable includes estimated fees for 4th quarter executive director fees..

³ 2021 Accounts Payable estimate includes executive director's fee for fourth quarter 2021 and \$200 due MMSA Educ. Foundation.

Exhibit III

**MINING AND METALLURGICAL SOCIETY OF AMERICA
JACKLING FOUNDATION - CASH FLOW, 2020 & 2021 RBC Account Only**

SOURCES			
<i>REVENUES</i>			
		<u>2020</u>	<u>2021</u>
Interest and Dividends		25,326	25,496
Capital Gains Distributions		<u>17,193</u>	<u>33,427</u>
Investment Revenue		42,518	58,923
Miscellaneous Revenue - Litigation		<u>1,100</u>	<u>1,300</u>
Total Revenues		43,618	60,223
<i>INVESTMENTS</i>			
Total Securities and Mutual Funds Liquidated or Matured		473,820	143,043
TOTAL SOURCES		517,438	203,266
USES			
<i>INVESTMENTS</i>			
Total Bonds and Mutual Funds Purchased		407,504	176,387
<i>EXPENDITURES</i>			
Discretionary Expenditures			
Donations (for details, see Exhibit VI)	Note 1	32,000	39,225
Transfers to Checking Account		12,000	
Non-Discretionary Expenditures			
RBC Advisory Fee	Note 2	7,887	9,153
TOTAL USES		459,391	224,764
NET CASH FLOWS IN (OUT):		58,047	(21,498)

Note 1 \$2,000 cash donations were made from Society Funds in 2020.

Note 2 Most non-discretionary costs were paid out of Society funds. See Society income statement.

Exhibit IV

**MINING AND METALLURGICAL SOCIETY OF AMERICA
JACKLING FOUNDATION - BALANCE SHEET**
(Including Unrealized Capital Gains/Losses)

ASSETS:	<u>12/31/2020</u>	<u>12/31/2021</u>
Cash Equivalents with RBC		
Bank Sweeps Accounts and Money Markets	71,094	48,296
Investments		
US Equities Mutual Funds	225,202	246,018
International Equities Mutual Funds	168,246	177,957
Fixed Income Mutual Funds	126,327	85,602
Bond Ladder	156,354	206,876
Global Tactical Asset Allocation Fund	191,334	237,212
Alternative Investment Funds	254,915	268,845
Total Investments	<u>1,122,377</u>	<u>1,222,510</u>
Subtotal of Cash Equivalents and Investments	<u>1,193,471</u>	<u>1,270,806</u>
Accrued Interest on Above Assets	1,469	2,426
Wells Fargo Checking Account	15,351	19,251
Members' Donations through MMSA not yet Received	2,488	475
Total Assets	<u>1,212,779</u>	<u>1,292,958</u>
 LIABILITIES & EQUITY:		
Liabilities	0	1,300
Equity		
Opening Net Worth	1,136,306	1,212,779
Income (Loss)	76,473	78,879
Closing Net Worth	<u>1,212,779</u>	<u>1,291,658</u>
 TOTAL LIABILITIES & EQUITY	<u>1,212,779</u>	<u>1,292,958</u>
 Summary of Total Distribution from Funds by Calendar Year	<u>2020</u>	<u>2021</u>
Donations: Mining Foundation of the Southwest	2,500	2,500
Women's Mining Coalition		5,000
Mountain States Legal Foundation	3,000	5,000
Colorado Mining Exhibit Foundation	3,000	2,500
CMA Education Foundation	3,000	
SME Foundation		20,000
The Sierra Fund	500	
National Mining Hall of Fame		4,225
MMSA Colorado Section	2,000	
Mineral Education Coalition	20,000	
Total Donations and Distributions by Calendar Year	<u>34,000</u>	<u>39,225</u>

Note 1 Bond Ladder for 12/31/2020 consisted of four corporate notes maturing from 2021 through 2025. Bond ladder for 12/31/2021 consisted of six corporate notes maturing from 2022 through 2025. Average S&P rating of these notes is slightly below investment grade.

Note 2 The donation to Colorado Section for 2020 was made from Society funds.

Exhibit VI

**HISTORY OF DONATIONS - 2000 - 2021
MINING AND METALLURGICAL SOCIETY OF AMERICA
and JACKLING FUND/FOUNDATION**

Year	Recipient	Donated	Annual Total
2000	Mineral Information Institute	30,000	
	Colorado Mining Exhibit Foundation	2,500	
	Colorado Mining Association Education Foundation	3,000	
	Arizona Mining Association	6,550	
	University of Arizona	5,000	
	Western Museum of Mining and Industry	5,000	
	Mountain States Legal Foundation	5,000	
	Colorado MPD	2,500	
	PERC	5,000	
	Da Vinci's Playhouse	3,000	
	N.C. State University, Education Foundation	6,000	
PFUSA	10,000	83,550	
2001	Mineral Information Institute	30,000	
	Western Museum of Mining and Industry	2,000	
	Northwest Mining Association	5,000	
	PERC	15,000	
	TUSD, Gridley Middle School	3,000	55,000
2002	Mineral Information Institute	30,000	
	PERC	20,000	
	Colorado Mining Exhibit Foundation	2,000	
	Colorado Mining Association Education Foundation	1,000	
	Arizona Section of MMSA, to support student attendance	1,000	
	Northwest Mining Association	2,000	56,000
2003	Mineral Information Institute	30,000	
	PERC	20,000	
	Colorado Mining Exhibit Foundation	2,000	
	Colorado Mining Association Education Foundation	2,000	
	Western Museum of Mining and Industry	2,500	
	National Energy Foundation	5,000	
	Mountain States Legal Foundation	7,500	69,000
2004	Mineral Information Institute	30,000	
	University of Arizona	3,000	
	Colorado Mining Association Education Foundation	5,000	
	Seaman Mineral Museum	7,500	
	Colorado Section	5,000	50,500
2005	Mineral Information Institute	40,000	
	Mountain States Legal Foundation (for 2004 year)	5,000	
	Mountain States Legal Foundation (for 2005 year)	5,000	
	Colorado Section	5,000	55,000
2006	Mineral Information Institute	40,000	
	Colorado Section	5,000	
	SME Workshop for Sustaining Mineral Education	15,000	
	Arizona Section	3,000	
	Sculpture to Recognize SME's 50th Anniversary	796	63,796
2007	Mineral Information Institute	40,000	
	Colorado Section	4,000	

Exhibit VI

**HISTORY OF DONATIONS - 2000 - 2021
MINING AND METALLURGICAL SOCIETY OF AMERICA
and JACKLING FUND/FOUNDATION**

Year	Recipient	Donated	Annual Total
	SME Foundation, Scholarship Fund	50,000	
	Mountain States Legal Foundation (for 2006 year)	5,000	
	Colorado Mining Association	25,000	124,000
2008	Mineral Information Institute	40,000	
	Mountain States Legal Foundation	10,000	
	Colorado Section	4,000	54,000
2009	Colorado Mining Exhibit Foundation	2,000	
	Mineral Information Institute	40,000	
	Colorado Mining Association Education Foundation	2,000	
	Mountain States Legal Foundation	5,000	
	Seaman Mineral Museum	2,000	51,000
2010	Mineral Information Institute	40,000	
	Mining and Metallurgical Society of America-Denver	4,000	
	Mountain States Legal Foundation	5,000	
	Colorado Mining Association	25,000	
	SME	1,000	75,000
2011	Mineral Information Institute	40,000	
	Northwest Mining Association - "I Dig Mining"	25,000	
	Colorado Section	5,000	
	Mountain States Legal Foundation - from Society Funds	5,100	
	Colorado Mining Association - from Society Funds	2,500	77,600
2012	Mineral Education Coalition	40,000	
	Northwest Mining Association - "I Dig Mining"	10,000	
	MMSA Colorado Section	2,000	
	Resources for a Better Colorado - from Society Funds	5,000	57,000
2013	Colorado Mining Association Education Foundation	10,000	
	MMSA Colorado Section	2,000	
	Mountain States Legal Foundation	5,000	
	Mineral Education Coalition	40,000	57,000
2014	Mountain States Legal Foundation	5,000	
	Mineral Education Coalition	40,000	
	Colorado Mining Association Education Foundation	2,500	
	Lowell Institute for Mineral Resources	10,000	
	Resources for a Better Colorado	7,500	65,000
2015	Mineral Education Coalition	40,000	
	UC Berkeley Oral History Center of the Bancroft Library	10,000	
	Mountain States Legal Foundation	5,000	
	MMSA Colorado Section	2,000	
	Women's Mining Coalition	1,100	
	Mining Foundation of the Southwest	2,000	60,100
2016	Mineral Education Coalition	40,000	
	MMSA Colorado Section	2,500	
	Colorado Mining Association	2,500	
	Women's Mining Coalition	1,500	

Exhibit VI

**HISTORY OF DONATIONS - 2000 - 2021
MINING AND METALLURGICAL SOCIETY OF AMERICA
and JACKLING FUND/FOUNDATION**

Year	Recipient	Donated	Annual Total
	Mountain States Legal Foundation	5,100	
	Resources for a Better Colorado	5,000	
	National Mining Hall of Fame	500	57,100
2017	Mineral Education Coalition	30,000	
	MMSA Colorado Section	2,000	
	Colorado Mining Association Education Foundation	2,500	
	Mining Foundation of the Southwest	5,000	
	Women's Mining Coalition	1,000	
	Resources for a Better Colorado	5,000	45,500
2018	Mining Foundation of the Southwest	5,000	
	Mineral Education Coalition	30,000	
	National Mining Hall of Fame	5,000	
	Mountain States Legal Foundation ¹	10,100	
	Colorado Mining Exhibit Foundation	2,000	
	Colorado Mining Association	2,500	54,600
2019	Mining Foundation of the Southwest	3,000	
	Mineral Education Coalition	20,000	
	IMVAL Trust	1,000	
	MMSA Colorado Section	5,000	
	The Sierra Fund	1,000	
	Women's Mining Coalition	1,000	31,000
2020	Mineral Education Coalition	20,000	
	Colorado Mining Exhibit Foundation	3,000	
	Mountain States Legal Foundation	3,000	
	Mining Foundation of the Southwest	2,500	
	Colorado Mining Association Education Foundation	3,000	
	Sierra Fund	500	
	MMSA Colorado Section	2,000	34,000
2021	Mountain States Legal Foundation	5,000	
	SME Foundation	20,000	
	CMA Education Foundation	2,500	
	Mining Foundation of the Southwest	2,500	
	Womens Mining Coalition	5,000	
	National Mining Hall of Fame	4,225	39,225
	Total, 2000 through 2021		1,314,971

Exhibit VII

MMSA Education Foundation
Accrual Basis Revenues and Expenses for 2020 and 2021

	<u>2020</u>	<u>2021</u>
REVENUE:		
Donations Received	1,675	1,550
Interest, Savings	1	0
	<u> </u>	<u> </u>
Total Revenue	1,676	1,550
EXPENSES:		
Donation Made	0	0
Total Expenses	0	0
RETAINED (NET) INCOME (LOSS):	<u>1,676</u>	<u>1,550</u>

Exhibit VIII

MMSA Education Foundation
Balance Sheet at 12/31/2020 and 12/31/2021
Accrual Basis

ASSETS:

	<u>12/31/20</u>	<u>12/31/21</u>
Checking Account Balance	1,336	836
Savings Account Balance	7,579	8,130
Due from Jackling Foundation		1,300
Due from MMSA		200
Total Assets	<u><u>8,916</u></u>	<u><u>10,466</u></u>

LIABILITIES & EQUITY:

Total Liabilities	0	0
Equity		
Beginning Net Worth	7,240	8,916
Net Income for the Year	<u>1,676</u>	<u>1,550</u>
Closing Net Worth	8,916	10,466
TOTAL LIABILITIES & EQUITY:	<u><u>8,916</u></u>	<u><u>10,466</u></u>



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March 22, 2022

From: Donald A. Eldhart Acting in the Role of Internal Auditor
To: The Members of the Mining and Metallurgical Society of America (“MMSA”), to the Council, Officers, and to the Executive Director of MMSA
Re: Internal Audit of MMSA’s 2021 Financial Statements

The undersigned individual, acting as internal auditor, is familiar with the financial activity of MMSA and the annual audit processes and conducted the audit of the 2021 Draft Financial Statements, as attached, and as follows:

Exhibit I, Revenues and Expenses for MMSA, Accrual Basis
Exhibit II, Balance Sheet for MMSA
Exhibit III, Jackling Foundation Cash Flow
Exhibit IV, Jackling Foundation Balance Sheet
Exhibit V, Jackling Foundation Transactions, Valuation, and Unrealized Gains and Losses
Exhibit VI, Jackling Fund/Foundation History of Donations
Exhibit VII, MMSA Education Foundation Revenues and Expenses
Exhibit VIII, MMSA Education Foundation Balance Sheet

These financial statements are the responsibility of MMSA’s management.

The acting auditor is charged to express an opinion on these financial statements based on the audit.

The acting auditor performed the audit to obtain reasonable assurance that the financial statements are free of material misstatement. The audit included examining, on a test basis, evidence from bank statements, original invoices, check stubs, and other statements and receipts supporting the amounts stated in the financial statements, as well as evaluating the overall financial statement presentation. The acting auditor believes that this audit provides a reasonable basis for his opinion. In addition, a single MMSA Gold Medal was transferred from a Wells Fargo safe deposit box in Boulder, Colorado to a safe deposit box in Littleton, Colorado.

In my unqualified opinion, acting as internal auditor, the audited financial statements for 2021 present a fair and accurate picture, in all material respects, of the financial position of MMSA, the MMSA Education Foundation, and of the Jackling Foundation as of December 31, 2021, and they comply with generally accepted accounting principles and practices.

Donald A. Eldhart, MMSA Acting Auditor

MMSA Webinar Video Summaries

March 11, 2022

Time Date	Title	Summary	Date Uploaded	Views	# Registered
		ESG Series			
March 18, 2022	ESG#4 - The E in ESG: There is no S or G without the E.	<i>Larry Cope, Anne Williamson, Patrick Williamson, Panelists.</i> The 4 th Webinar in the series of five assembles experts in Environmental issues related to social license to operate for mines.			
1:11:34 February 11, 2022	ESG #3 - A Look Under The Hood at: Indian Law and ESG Governance	<i>Carolyn Loder and Maureen Upton, Panelists.</i> Carolyn will provide her perspective on U.S. Indian law – the distinct body of law that relates to the legal relationships between the federal government and Indian tribes. Maureen Upton: Boards of directors, management and other stakeholders of publicly traded companies around the world have seen a proliferation in ESG-related frameworks in recent years. https://youtu.be/OfnqlzZCmgY	February 16, 2022	57	106
1:10:19 December 3, 2021	ESG #2 Social Issues – Social License to Operate	<i>Debra Johnson and Elizabeth Freele, Panelists.</i> Mining’s Social License to Operate (SLO) has been heavily challenged over the last few decades, from NIMBYism to outrage over accidents or mistakes. Mining’s role in our history, present and future is fundamental to our collective existence and wellbeing. Yet the industry continues to struggle with social acceptability. https://www.youtube.com/watch?v=P6M0UUI21E8	December 4, 2021	53	93

Time Date	Title	Summary	Date Uploaded	Views	# Registered
1:04:51 October 1, 2021	ESG #1 Experts Panel Discussion	<i>Lauren Meyer, Patrick Williamson, Panelists.</i> The QP Enhancement Committee offers a series of webinars about ESG designed for the professionals working for mining companies and those involved in the preparation of studies and disclosure documents. Five webinars are planned. The first Webinar is a Panel session and assembles experts in all three ESG areas. https://www.youtube.com/watch?v=fHJ4Xz4bWAs	Oct 9 2021	74	108
		NI-43-101 and S-K-1300			
1:14:19 November 19, 2021	Compliance with NI 43-101 – The Regulators Observations on Ongoing and Emerging Challenges – The Good, The Bad, and the Ugly	<i>Victoria Yehl, Chris Collins, Panelists.</i> Regulatory staff at the BCSC, and in other CSA jurisdictions, continue to see qualified persons failing to comply with the requirements of NI 43-101 and the Technical Report Form (43-101F1) in a number of areas. Some are long standing observations, while others are emerging with the renewed enthusiasm in mining capital markets. The brief presentation and subsequent Q & A will be underscored by a core principle of NI 43-101, the role of the qualified person acting as a ‘gatekeeper’ on behalf of the investing public and in upholding the integrity of the mining capital markets. https://youtu.be/6fdiVmGiMXA	Nov 23 2021	30	142
50:35 Mar19 2021	IG-7 to S-K-1300 - Past, Present, and Now What?	<i>Don Hulse, Presenter.</i> The discussion outlines the changes in mineral property disclosure rules for US registrants. We show how the new rule compares to other international codes and the CRIRSCO template. We review some of the pros and cons, benefits and concerns that come with the changes, and highlight some potential pitfalls in preparing reports under the Rule. As with all changes, only time will tell if SK-1300 will have the desired changes in the US Mining industry https://www.youtube.com/watch?v=QYQYrMeRTH0	Mar 22, 2021	10	66

Time Date	Title	Summary	Date Uploaded	Views	# Registered
58:32 Mar 5 2021	MMSA Materiality S-K-1300	<i>Kwame Awuah-Offei, Presenter.</i> Annual reports filed with the US Securities and Exchange Commission (SEC) covering any fiscal year that starts on or after January 1, 2021 would have to comply the Commission's new rules on mining property disclosures (Regulation S-K subpart 1300). S-K 1300 requires mining companies to provide certain disclosures about their material mining properties and attach a technical report summary (TRS) prepared by a qualified person as an exhibit, if they are disclosing mineral resources and reserves for the first time or material changes to their previous resource and reserve disclosure. https://www.youtube.com/watch?v=v03U69CyfGo	Mar 25, 2021	27	81
59:20 Dec 11 2020	S-K 1300 Simplified for Consultants	<i>By Robert Cameron, Ph.D., Presenter.</i> The U.S. Securities and Exchange Commission (SEC) has published new disclosure requirements replacing Industry Guide 7 for Registrants engaged in mining operations. These new requirements are currently referred to as S-K 1300 which will become mandatory for Registrants as of January 1, 2021. Dealing with the new regulations is not as overwhelming for consultants as it might initially appear. https://youtu.be/iTIZb1HggCQ	Dec 17, 2020	100	82
Critical Minerals and Supply Chain					
57:46 May 14, 2021	Critical Minerals (..er Penalty Elements) from Mine to Metal in the Copper Supply Chain	<i>Michael Moats, Presenter</i> In 2018, the United States identified thirty-five critical minerals due to concerns regarding supply risk and their importance to the nation's economy and defense. This presentation will examine the deportment and production potential of five "critical minerals" (selenium, tellurium, arsenic, antimony and bismuth) in the copper pyrometallurgical supply chain from mine to metal. https://youtu.be/wIH5c3aqH3I	May 29, 2021	22	170

Time Date	Title	Summary	Date Uploaded	Views	# Registered
1:02:33 Jan 15, 2021	MMSA Battery Metals Supply Chain	<i>Chris Berry, Presenter</i> Chris covered the following topics: 1. Why rebuild domestic supply chains? Jobs and industrial self-sufficiency are key factors here? 2. Availability of US reserves to critical metals/import dependence. 3. Discussion of how much lithium/cobalt/copper/ nickel will be needed for certain Electric Vehicle (EV) penetration rates and what this means for metals, etc. 4. What does a Biden Administration mean for the domestic battery metals industry? 5. What is happening in this regard in the European Union and China? 6. How can US industry compete? 7. How has COVID accelerated changes to supply chains? https://youtu.be/PXzGd0um3X4	Jan 21, 2021	231	178
54:10 November 20, 2020	Critical Minerals as By-Products of Production and Criticality in Intellectual Capital	<i>Dr. Philip C Keller and Dr. Corby G. Anderson, Colorado School of Mines. Presenters.</i> The issue of material criticality has been receiving much attention recently from governments all over the world. Net import reliance can hint at the supply-based risk for materials. Current efforts to increase supply stability of critical materials through by-product or co-product production alongside more common elements is summarized. https://youtu.be/MMH0q8NdCtA	Dec 17, 2020	16	130
1:11:08 Aug 19 2020	Evaluating Critical Mineral Commodity Supply Chains	<i>Dr. Nedal Nassar, Presenter</i> This Webinar was presented to help inform the public policy dialogue about the Nation’s reliance on imports of the critical minerals needed for the domestic manufacturing and technology sectors and to develop conventional and renewable energy infrastructure. The presentation features Dr. Nedal Nassar of the U. S. Geological Survey. https://youtu.be/uGNFS8nbShU	Aug 29, 2020	155	197

Time Date	Title	Summary	Date Uploaded	Views	# Registered
		Due Diligence			
1:05:04 April 23, 2021	Setting the Right Foundations to Perform High Quality Due Diligence.	<i>Ross Bhappu, Ricardo Campoy, Jon Lamb, Panelists.</i> The mining industry has a checkered history of success in due diligence study. Since such studies are impacted by significant levels of uncertainty in the resource sector due to the nature of mineral deposits and the myriad of complex factors involved in their evaluation, due-diligence reports are typically based on opinions and judgments developed on the basis of experience and technical analysis, often generated using less than complete information. https://youtu.be/zZWg6K_5qK4	May 28, 2021	17	155
		Abandoned Mine Lands			
51:17 Nov 19 2020	Abandoned Mine Lands Update	<i>Tawny Bridgeford (National Mining Association) and Steve Moyer (Trout Unlimited)</i> discussed legislative prospects post-election, as well as how both groups worked together to find consensus on the pilot project program Audio Only: https://www.mmsa.net/AMLDocs/AMLNov19-2020Webinar.html	NA	NA	102
32:06 April 19, 2021	Legacy Abandoned Mine Lands - Progress and Plans – Part 1 of 4	<i>Perpetua Resources Panel Discussion : Austin Zinsser, Laurel Sayer, Michael Bogert Presenters</i> Part 1 - Perpetua Resources (formerly Midas Gold). Critical Resources; Responsible Mining; Environmental Restoration; Administrative Settlement Agreement and Order on Consent (ASAOC). Providing a summary of their recently negotiated process with EPA. https://www.youtube.com/watch?v=Vrs5QfY54Ms	May 1, 2021	10	154
25:04 April 19, 2021	Legacy Abandoned Mine Lands - Progress and Plans – Part 2 of 4	<i>Trout Unlimited Panel Discussion, Presenters</i> Part 2 - Trout Unlimited - 2020 update and 2021 Outlook from a Good Sam Perspective; Presenter: Jason Willis, P.E. TU-CO AML Program Manager. https://www.youtube.com/watch?v=mBrTKNByv6I	May 1, 2021	1	154

Time Date	Title	Summary	Date Uploaded	Views	# Registered
30:46 April 19, 2021	Legacy Abandoned Mine Lands - Progress and Plans – Part 3 of 4	<i>The Nature Conservancy, Presenter</i> – Part 3 - Mining the Sun. Providing discussions regarding identified Nevada Legacy sites for possible renewable energy deployments; Presenter: Jaina Moan https://www.youtube.com/watch?v=xHks2I9nxjU	May 1, 2021	1	154
39:45 April 19, 2021	"Legacy Abandoned Mine Lands - Progress and Plans" April 19, 2021 – Part 4 of 4	<i>James Gusek, Tahne Corcutt (B2C), and Lee Josselyn, Presenters.</i> Part 4 – New Technology: Using Spent Brewery Grain to Suppress Acid Rock Drainage from Historic Tailings Part 4 - Closing questions and discussion. https://www.youtube.com/watch?v=ndbzFHibgsI	Apr 30, 2021	0	154
		Ethics			
52:51 Aug 28 2020	MMSA Ethics2 Anti-corruption and Bribery	The free one-hour ethics webinar follows the MMSA Ethics Webinar presented July 15. The main topic focuses on how mining companies address corruption and bribery when working internationally. Often in other countries, bribery or payments to individuals or organizations are necessary to do business. In the U.S. a company is required to follow laws against bribery, so how can a company do business when ‘bribery’ is the only way to get things done. https://youtu.be/xO_MaxA-vK0	Sep 13, 2020	16	54

Time Date	Title	Summary	Date Uploaded	Views	# Registered
1:08:14 July 15, 2020	MMSA Ethics Part 1 Professional Ethics	<i>David Abbott, Presenter</i> The free one-hour ethics webinar presents a variety of professional ethics topics for discussion by participants. Topics will include: • Who is your client? • Aspects of insider trading: what and when can or should you disclose something? • Dealing with a client who wants a more favorable report • Professional competence and specialized knowledge • Confidentiality versus protection of the public's health, safety, and welfare • Whistle blowing. https://youtu.be/5Q_QomvFJhg	Aug 18, 2020	15	65
48:54 February 8, 2019.	Honesty - Avoiding the Misues of Models.	<i>David Abbott, Presenter</i> This video is not on YouTube, but is available on the MMSA Web Site. https://www.mmsa.net/MembersOnly/HonestyTalk.html	NA	NA	NA
		Miscellaneous			
6:33 2008	MMSA History Video	This video was produced in 2008 and talks about the history of MMSA. It was originally produced as a DVD and later uploaded to YouTube.	May 14, 2018	44	NA

AML Committee Report
Ann Carpenter

2022 AML Summit, Phoenix, AZ April 6 Tour April 7

AML Summit 2022 has 3 sessions this year (I. Keynote Session, II. Stakeholder Insights on Legacy Mine Lands, and III. Tribal Monitor Program—A Model for Collaboration on Mine Impacted Landscapes in AZ) and a closing Q&A

Session I: Keynote Opening Session--4 speakers representing various perspectives including National Mining Association, Trout Unlimited, AZ State Agency, and Tribal representatives

Session II: industry, conservations groups, new technologies, and tribes are represented in 6 speakers

Session III: industry and tribes will explain the emerging importance of tribal monitoring programs in assisting in the AML efforts.

---Over 80 registered (+70 in-person and +10 virtual)

This will be the first time we are able to offer a tour, thanks to the outstanding efforts and coordination by AML Summit committee members Dayan Anderson, Jeremy Scott Collyard and Jack McPartland

---Over 10 currently registered for the Tour.

FINAL REPORT ON THE 2021 CPD LOG AUDITING PROGRAM

1. 35 QP members were selected for auditing of their 2018-2020 CPD logs.
2. The initial requests to submit logs were sent out on 4/14/2021. The official closing date for the CPD audit program was 9/30/2021. One additional set of logs was submitted after this date by an individual not included in the group of 35. These logs were also audited and the person was found to be compliant.
3. Of these 35 QP members, 20 submitted logs in one form or another. Note - Use of the MMSA CPD template was not required.
4. Two (2) people advised that they were now retired QPs and no longer kept a log.
5. Two (2) people advised that they had now resigned.
6. Of the remaining 11 people, 3 advised that they would attempt to submit their logs by 9/30/2021. The other 8 were unresponsive
7. Of the 20 sets of logs that were received, 19 were accepted and submitted for audit. One person's log was considered so non-compliant that it was submitted to Amy Jacobsen for response.
8. In all, 18 QPs were found to be fully compliant with our current QP requirements. One person was given provisional approval.
9. In practice, during the last audit multiple discipline QPs were allowed to "double dip" and record hours from a single webinar or other activity on all appropriate discipline logs. Also, only 1 hr. of ethics per year was required regardless of how many QPs a person has.
10. The process of auditing the logbooks was done using volunteer auditors with the provision that the auditor be the same QP type as the person being audited. This approach proved to be challenging in numerous ways:
 - a. Some volunteers failed to complete the audit in a timely manner, which meant that someone else had to be reassigned to complete the task.
 - b. Some auditors were good about completing the audit, but significant delays occurred with the submission of the audit reports.
 - c. At times all volunteers were assigned a set of logs so there were no auditors available when new logs were submitted.
 - d. There was a poor balance between the QP disciplines of the volunteers and the people needing audits.
 - e. Within the volunteer pool, there was not a QP representative in every discipline for which logs were submitted.
 - f. Only one auditor was assigned to do an audit for someone who was a QP in multiple disciplines and this led to confusion as to how to handle the multi-discipline logs. There was also confusion as to how multi-discipline logs should be prepared by the person being audited.
11. The foregoing led to the appointment of an Ad-hoc committee to review the current MMSA QP program and recommend improvements.
12. Time spent on the audit program was about 60 man-hrs.

Respectfully submitted,

W. J. (Joe) Schlitt

Quality Membership Committee Annual Report – March 2022

Members: Jack McPartland (chair), Bill Wilson, Mark Bowron, Marco Carrasco, Steve Hearn, Heather Lammers, Doug Learmont, Karen Jass, Andrea Brickey, Dayan Anderson, Jill Nelson, Nick Tintor, Neil Prenn

Summary

The Quality Membership Committee met intermittently over the course of 2021. Main efforts were focused on the Young Professionals Mentoring Program and efforts in support of the MMSA Triple 1s Membership Drive.

Young Professional Mentoring Program

The mentoring program developed with SME successfully kicked off a pilot program, which ran through 2021 and continues today. A group of eight pairs of mentors and mentees were paired by a joint committee SME and MMSA. The mentors were all MMSA members. The Mentees were all young professional members of SME. These young professionals came mainly, though not exclusively, from the SME Young Leaders group. A ninth mentor-mentee pair (existing relationship between an MMSA member and a mentee) was added to the group.

Reporting by SME indicated that three of the pairs successfully made contact and continue with the mentor/mentee relationship. Including the added (9th) mentor-mentee pair, a total of four out of nine pairs successfully made contact. While this participation rate was lower than expected, it's a start. Feedback from the volunteer mentees who did not make contact with their assigned mentor included time constraints and lack of common professional interests and generational differences with the assigned mentors.

MMSA is working with SME to evaluate expanding the potential mentor pool, and to come up with other ideas for improving participation and expanding the program.

Membership Drive

The QMC also worked as required to support the Triple 1s membership drive. This included generating a revised current member list and input on mailers, etc.

Other

The committee organized hosting of a group of members of the SME Young Leaders group at the SME Foundation dinner. This was a good opportunity to talk to the Young Leaders group about MMSA seemed to be much appreciated by the members of the Young Leaders Group in attendance.

Moving Forward

The QMC has not yet met in 2022, but we look forward to resuming our monthly calls in April and continuing our efforts related to member recruitment and the Mentor program.

MMSA Committee Reports for Annual Meeting Government and QP Enhancement March 25 2022

Government Committee 2020-2021

The Committee organized Webinars during 2020 and 2021. See the Webinar Video Summaries for details.

Four Webinars were presented about critical minerals and the supply chain. The Government Webinar contact list currently has 459 email contacts. The contacts come from the U.S., Canada, and other parts of the world. The contacts are from companies, educators, government agencies, and individuals.

The Webinars are available on YouTube and have a combined viewing of 424 as of March 11, 2022. The MMSA Web page has links to all the Webinars plus the AML conferences.

More Webinars are being planned for 2022. The latest suggestions are to cover topics based on the SME Technical Briefings. There might be possibilities of collaborating with the SME GPAC (committee) in producing the Webinars. SME usually charges for theirs, but MMSA doesn't. Possibly SME will help with promoting the Webinars.

QP Enhancement Committee 2020-2021

The QP Enhancement Committee held 11 Webinars in 2020 and 2021. The webinars included a series about ESG (Environment, Social, Government, 5 in the series to be completed in 2022), four Webinars on NI-43-101 and S-K-1300, and two Webinars on Ethics. The contact list has 403 emails. Several Canadian regulators have joined the NI-43-101 Webinars, and two presented a Webinar about The Good, The Bad, and the Ugly of technical reports.

The Webinars are available on YouTube and have a combined viewing of 382 as of March 11, 2022. The MMSA Web page has links to all the Webinars plus the AML conferences.

The ESG final two Webinars will be completed in 2022. Several other ideas for Webinars have been proposed.

MMSA QP ENHANCEMENT COMMITTEE

REPORT FOR AGM

The QP Enhancement Committee met monthly throughout the 2021 calendar year. The focus of Committee meetings and discussions was to organize regular webinars for MMSA membership.

The Committee is comprised of Curtis Clarke (2021 Chair), Betty Gibbs, Patrick Williamson, Marco Carrasco, George Sturgis and Hamid Samari. Committee meetings were also attended by MMSA executives Amy Jacobsen, Susan Wager and Judy Colgan on a periodic basis. Industry experts were also invited to attend to provide insights into their areas of expertise.

The lead topic for 2021 was ESG – Environmental, Social and Governance. A series of five webinars were organized of which three were conducted in 2021, with the remaining webinars occurring in 2022.

Webinar Series Summary:

Date	Subject	Speakers	Registrants	Participants
March 2021	S-K 1300	Don Hulse		
Nov 19, 2021	Governing NI 43-101 disclosures	Chris Collins, BCSC Victoria Yehl, BCSC		
Dec 3, 2021	The Social License to Operate	Elizabeth Freele, Sympact Debra Johston, Stantec		40
Feb 11, 2022	What's under the ESG and Indian Law Hood?	Maureen Upton, Independent ESG expert Carolyn Loder, Sonora Mining	106	50
Mar 18, 2022	Without the 'E' there is no "S" or 'G'	Patrick Williamson, Intera Inc. Ann Williamson, Wood	96	50

Future webinar subjects under development and consideration are:

1. ESG 101 for Investors
2. ARD and how to manage PAG with NAG

In addition to organizing and hosting webinars, the Committee will seek new enhancement opportunities for MMSA QPs.

QP COMMITTEE REPORT FOR 2021

Date: 19th March, 2022

The Qualified Professional Committee continued the practice of meeting monthly, whenever there was an applicant for consideration. When the applicant was accepted by the QP Committee, individual interviews were arranged. For the respective interviews, we endeavored to have a QP Committee member present whose QP was in the same category as that of the applicant.

In 2021, the QP status was awarded to eight applicants. One of whom achieved the status in two categories. The distribution of the categories is given below:

- Geology - 3
- Ore Reserves - 0
- Mining - 2
- Metallurgy & Mineral Processing - 2
- Environmental - 0
- Mine Valuation and Finance - 1
- Mine Project Costing, Infrastructure and Management - 1.

I am very grateful to the members of the QP Committee, listed below, who have served this Committee and the MMSA so willingly over the past three years:

- David Abbott
- Pat Gochnour
- Bob Cameron
- Jaye Pickarts
- Barney Guarnera &
- Bill Wilson.

I am also grateful to Andrea Brickey and the other members of the CPD Ad Hoc committee for their review of the CPD process. One of the key recommendations was to *“Create an online CPD logging and tracking system with a dashboard for easy viewing. The online logging would also expedite the auditing process as criteria can be evaluated and feedback provided to the QP to see where there are deficiencies. This same functionality can also automate much of the auditing process.”* The QP Committee will be looking into this once the interactive architecture of the MMSA website has been finalized.

Respectfully submitted,

Michael D. S. Blois

Chairman QP Committee