2022 TUCSON GEM & MINERAL SHOW ®
Symposium & Guest Speaker Schedule
“THE SHOW THAT GLOWS – FEATURING THE APATITE SUPERGROUP”

TB: Turquoise Ballroom

CB: Crystal Ballroom

Thursday, February 10th

1:00 pm – 1:45 pm (TB)  
“Journey to the Ilímaussaq Alkaline Complex, Southwest Greenland”  
By C. Lee McIlvaine IV PG

2:00 pm – 2:45 pm (TB)  
“Franklin and Sterling Hill New Jersey: Memories and Experiences”  
By Alan Cherepon

1:00 pm – 3:00 pm (CB)  
Mineral Photography Seminar: “Critiquing Your Photography”  
By Jeff Scovil

3:30 pm – 4:00 pm (CB)  
Society of Mineral Museum Professionals Board Meeting

4:00 pm – 5:00 pm (CB)  
Society of Mineral Museum Professionals Membership Meeting

5:00 pm – 6:00pm (CB)  
By Eric Fritz

Friday, February 11th

9:30 am - 6:00 pm (TB)  
Arthur Roe Memorial Micromount Symposium

9:30 am - 10:00 am (TB)  
Welcome and Scope Setup

10:00 am - 11:30 am (TB)  
Symposium Talks:

10:00 am - 10:45 am (TB)  
"Tellurium Minerals of the Tombstone District, Arizona"  
By Brent Thorne

10:45 am - 11:30 am (TB)  
"Mineralogical Journeys with Joe and Mark"  
By Ron Gibbs

12:15 pm - 4:00 pm (TB)  
Socializing

11:00 am – 11:45 am (CB)  
“The Beauty and Science of Fluorescence Zoning in Apatite”  
By Prof. John Rakovan

1:00 pm – 1:45pm (CB)  
By Patrick Rowe

2:00 pm – 2:45 pm (CB)  
“What Causes Luminescence in Minerals?”  
By Glenn Waychunas
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**Saturday, February 12th**  
The 40th FM-TGMS-MSA Tucson Mineral Symposium,  
"Minerals of the Apatite Supergroup and Mineral Fluorescence"

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<td>10:00 am – 11:00 am (CB)</td>
<td>Opening of Symposium</td>
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<td>10:00 am -10:15 am (CB)</td>
<td>Introduction by Symposium Chair</td>
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| 10:15 am - 10:45 am (CB)   | “Apatite and Fluids: Pseudomorphism, Mineral Inclusions, and Mineral Formation.”  
                          | By Daniel E. Harlov (remote talk from Europe)   |
| 10:50 am - 11:20 am (CB)   | “The Sauberg Mine, Type Locality of Fluorapatite, and the Recognition of Apatite as a Distinct Mineral Species.”  
                          | By John Rakovan                                                        |
| 11:25 am - 11:55 am (CB)   | “Fluorescence Spectroscopy of Apatite”                                  | CB        |
|                          | By Madeline Murchland* and John Rakovan                                |           |
| 12:00 noon - 12:30 pm (CB) | “Decoding the Colors and Patterns of Fluorescence in Diamond.”         | CB        |
|                          | By Evan Smith                                                          |           |
| 12:30 pm - 1:30 pm        | Lunch                                                                 |           |
| 1:30 pm - 2:00 pm (CB)    | “The Apatite Supergroup Minerals from Mexico.”                         | CB        |
|                          | By Peter Megaw                                                         |           |
| 2:05 pm - 2:35 pm (CB)    | “The Fluorescence of Scheelite from Xuebaoding, Sichuan Province, China.”  
                          | By Markus Raschke                                                     |           |
| 2:40 pm – 3:10 pm (CB)    | “Vanadinite in Arizona.”                                               | CB        |
|                          | By Ray Grant                                                          |           |
| 3:25 pm – 3:55 pm (CB)    | “Pyromorphite from the World-Famous Phoenixville District Lead Mines, Chester County, PA”  
                          | By Bill Stephens                                                     |           |
| 4:00 pm – 4:30 pm (CB)    | “Apatite Occurrences in the Black Hills, South Dakota.”                | CB        |
|                          | By Thomas Loomis                                                     |           |
| 4:35 pm - 5:05 pm (CB)    | “Orange Fluorescent Minerals from Mogok: from the Scapolite – Feldspathoid Bearing Marbles to Hackmanite.”  
                          | By Nicolas Hebert, (remote talk 7:35 am from Perth)                    |
| 5:10 pm - 5:40 pm (CB)    | “Electronic Defects as Activators of Luminescence in Minerals: Overview and Examples of Novel Fluorescence and Ttenebresence.”  
                          | By Glenn Waychunas*, George Rossman and Michael Gaft                  |
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Saturday, February 12th

1:00 pm – 1:45 pm (TB)  “The Unique Mineralogy and Exceptional History of Graves Mountain, Lincoln Co., Georgia, USA”
By Jose Santamaria

2:00 pm – 2:45 pm (TB)  “Artisanal Mining in Namibia”
By Dr. Brad Ross

3:00 pm – 3:45 pm (TB)  “New Mineralogy of Arizona”
By Raymond Grant