

Mining in the Mojave

Desert Symposium 2023



The Mojave Desert has been a rich source of minerals since Native Americans mined areas of it for turquoise and obsidian. Almost every mineral commodity used in modern society is found in the mineral deposits of the Mojave Desert. The 2023 Desert Symposium (April 20-24, 2023) will focus on these mineral extraction activities and summarize the historic, economic, environmental, social, and cultural legacies that were created by it.

The Desert Symposium solicits papers and abstracts on any topic relative to our symposium theme and also seeks site-specific papers and abstracts for the following deposits:

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|---------------------------|----------------------------|--------------------------------|
| Amboy Cinders | Colosseum, Au | Mesquite-Imperial-Picacho |
| Amboy Marble (Omya) | Copper World Cu-Pb-Zn | Mojave Tank (Fluorspar) |
| Amargosa Valley Hectorite | Danby Salt | Mountain Pass (REE) |
| American Mine (military) | Darwin | Mud Hills (Zeolites) |
| Ash Meadows Zeolite | Fort Cady (Colemanite) | Owens Lake (Evaporites) |
| Bagdad-Chase Au-Cu | Gold Belt Chrysotile | Pink Lady (Bentonite) |
| Boron (Rio Tinto) | Hector (Hectorite) | Pisgah Crater Cinders |
| Billie Borate | Hunter Mountain | Rand Mine (Yellow Aster) |
| Briggs Au | (Wollastonite) | Red Hill (Cinders) |
| Bristol Salt and Gypsum | Lava Hills Cinders (Aiken) | Searles Lake (Borates, brines) |
| Brubaker-Mann Quarry | Ibex Bentonite | Shining Dawn Au |
| (Crushed Stone) | Ibex Talc | Silver Hills Pb |
| Calico Ag | Kim-Crete Pumice #3 & #4 | Skidoo-Del Norte Au |
| Castle Mountain Au | Kingstone Formation, U-TH | Solidad Mtn (Golden Queen) |
| Cave Mnt-Baxter (Fe+Ls) | KMI Zeolite Mine | Telegraph Au |
| Cerro Gordo Ag | Leviathan Barite | Vanderbilt |
| Chubbuck Limestone (near | Marble Mts NW (Castle Mine | Vulcan Fe |
| Danby Lake) | and others) | Vulcan (Ship Rock Mts Fe) |

Field Trips

FIELD TRIP ITINERARY	TIME
Pre-Trip, April 20	
Mountain Pass	7:30 AM
Techatticup Underground Tour	12:00 PM
Castle Mountain	2:30 PM
Day 1, April 23, Sunday	
Zzyzx	7:30 AM
Baxter Iron Mine	8:00 AM
Vanderbilt	11:00 PM
Morning Star	12:45 PM
Telegraph	3:00 PM
Day 2: April 24, 2023: Monday	
Zzyzx	7:30 AM
Waterloo Mill Site (Calico District) and Apollo exploration program	9:30 AM
Boron	1:30 PM
Golden Queen	3:30 PM

The symposium is at the Zzyzx Desert Research Center:

<https://www.nps.gov/moja/learn/historyculture/zzyzx.htm>

REGISTRATION AND MANUSCRIPT INFORMATION

To register go to: <https://www.desertsymposium.org/>

SUBMISSIONS

Deadlines:

February 15, 2023: email manuscripts to editor David Miller - dmiller@usgs.gov

April 15, 2023: email pdf presentation to Bruce Bridenbecker - bridenbecker.dsi@gmail.com

Instructions for Authors, Desert Symposium 2023

The Desert Symposium, Inc. publishes a proceedings volume for each meeting that includes the **field trip road log, full papers, short papers, and abstracts**. If you wish to contribute to the *road log*, please

contact the 2023 field trip leader **Gregg Wilkerson** (yosoygeologo@bak.rr.com) with ideas. The field trip is focused on Mining in the Mojave Desert.

The other three publication types are:

Abstract--A short, succinct description of the presentation topic, with no headings, no figures, no references.

Short Paper--A focused paper with headings, figures and references. Generally the short paper will stick to a narrow focus, presenting data and interpreting it, with a short discussion at most.

Full paper--A longer and thorough treatment of the subject matter. The introduction will generally lay out the scope and importance of the topic, as well as related prior studies.

Discussion and conclusions may be extensive. Figures, tables, and references fully document the material presented. Paper length is not limited but proposals for large papers should be sent to the editor because the number of large papers is limited.

Responsibilities

The first author has the primary responsibility for the correctness and reasonableness of the paper(s) submitted. In submitting a manuscript, the author pledges that the manuscript is an original work and does not infringe upon the rights of previous authors or publishers. All submittals must have a complete mailing or email address listed for the first author. Authors of theme-related papers may contribute more than one paper. Authors of non-theme papers may submit a maximum of one paper and one poster.

Paper Reviews

Manuscripts will be reviewed by experts selected by the editor. Authors are encouraged to seek reviews prior to submitting their papers, incorporating suggestions as appropriate and acknowledging reviewers in the text. Manuscripts may be accepted, provisionally accepted, or be found unsuitable for publication in the DSI volume. Provisional acceptance will include suggestions for revisions. Authors will be given adequate time to respond to editorial review comments or may request an extension.

Preparing Your Manuscript - Manuscripts should be written for the well-educated non- specialist. They must be original and previously unpublished work that furthers knowledge in their fields. The Desert Symposium Board of Directors strongly encourages all authors to present their work at the Symposium. Authors should follow the standards for footnotes, citations, headings, and other conventions as applicable to their discipline. Reference information must be complete. Poster presenters must submit an abstract or paper.

Figures, Tables, and Photographs - Any file format that is sufficient resolution for a reviewer is fine for first submission. No images should be larger than ~10 MB. Tables and figures should be submitted as separate files, and not embedded in the manuscript. Captions should be given on a separate page, referenced to their accompanying figures. Please mark approximate locations in the text document for each figure and table.

Color pages - Hard copies of the proceedings volume will be printed in black and white with limited color pages. If you wish to have some pages of your paper printed in color, inform the editor of your wishes but be aware that there is an extra cost for this service (**\$40 per page**). For B&W printing, check to make sure the images are legible in B&W. A color pdf of the volume will be available on line. The print run is limited so please reserve your copy on the registration form

Submitting your paper - Authors must submit manuscripts via email in MS Word format to Dave Miller. [Note: when Mac documents are converted to PC format, symbols may be unrecognizable. If your paper includes

symbols, please create and send a pdf in addition to the Word document]. Keep formatting simple and use a minimum of styles. Do *not* embed figures, tables or photographs into your manuscript; submit them as separate files. Final images should be in TIF, PNG, or JPG format at a suitable resolution for printing (>300 dpi for final copy). When emailing files and images, indicate author's name and abbreviated title in the subject line, e.g., Fig 1 Miller Cima.jpg.

Oral Presentations - All oral presentations must be in pdf format and will be placed on the DSI computer for projection. If you have special projection needs (e.g., videos) or computer requirements (e.g., live internet steaming), please contact DSI. You may not project your presentation from your own computer. We would prefer that you email us your presentation, rather than bringing it on a memory stick. Please email your presentation to Dave Miller and Bruce Bridenbecker.