Sponsored by Tucson Gem and Mineral Society



Dr. Arthur Roe

2024 TGMS Micromount Symposium

Friday, February 9, 2024

West Meeting Room – 102/103:

9:30 am - 6:00 pm (102/103)	Arthur Roe I	Memorial N	<i>l</i> licromount	Symposium
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9:30 am - 10:00 am (102/103) Welcome

10:00 am - 11:30 am (102/103) Symposium Talks:

10:00 am - 10:45 am (102/103) "Volcanic Fumarole Minerals in Japan" By Alfredo Petrov

10:45 am - 11:30 am (102/103) "Mosaic and Split Crystals"

By John Rakovan

11:30 am - 12:15 pm (102/103) "Granite Pegmatites of the Northeast USA" By Dr. Vandall King



2024 TUCSON GEM AND MINERAL SHOW®

Friday, February 9, 2024 10:00AM – 10:45AM in the West Meeting Room: 102/103

"Volcanic Fumarole Minerals in Japan "
By Alfredo Petrov

BIO: Alfredo is a geologist, originally from England, who has studied and worked in Ethiopia, Lebanon, California, Bolivia, Japan, and other places. He currently splits his time between homes in Tucson and Catalonia and is a passionate hunter of microminerals and geological oddities.

TOPIC: "Japanese Volcanic Fumaroles:" Fun field collecting, lots of beautiful micros and exotic chemistry. (Combined with some culture, geography and geology, and practical tips for collecting in fumaroles.)







2024 TUCSON GEM AND MINERAL SHOW®

Friday, February 9, 2024 10:45AM – 11:30AM in the West Meeting Room: 102/103

"Mosaic and Split Crystals " By John Rakovan

BIO: Dr. John Rakovan is the State Mineralogist and senior museum curator at the New Mexico Bureau of Geology and Mineral Resources. He has been an executive editor of and regular contributor to Rocks & Minerals magazine since 2001 and was a professor of mineralogy at Miami University for 25 years. John has broad research interests including arowth. structural and morphologic crystal crystallography, and mineral deposit formation. He has been a mineral collector for more than forty years with particular interests in apatite, layer with silicates. and specimens interesting mineralogical characteristics, like mosaic and split crystals.



TOPIC: Mosaic offset of crystal lattices has been invoked for decades to help explain the characteristics of X-ray diffraction peaks. Such mosaicity is thought to occur on the <100nm scale. Macromosatic structures result in crystals with easily visible habit modifications. A textbook example is the bowtie habit so common to stilbite. Many other beautiful examples exist among minerals and this talk will explore both the structural and morphologic characteristics of macomosaic crystals often referred to as "split" crystals.





2024 TUCSON GEM AND MINERAL SHOW®

Friday, February 9, 2024 11:30AM – 12:15 PM in the West Meeting Room: 102/103

"Granite Pegmatites of the Northeast USA"

By Dr. Vandall King

BIO: Dr. King has been a mineral collector since 1959 and has degrees from the University of Maine and from the State University of New York in Geology and Mineralogy. He has written or coauthored 24 mineralogical and geological books. His started his career as mineralogist for Ward's Natural Scince Inc. is still engaged in occasional mineralogical consulting while "retired." extended biography at https://www.mindat.org/user-1370.html

TOPIC: Dr. King has degrees in science about granite pegmatites and has studied pegmatites in 23 US states as well as in Canada.





