

## Application Form

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### Profile

James

First Name

Karner

Middle Initial

Last Name

[REDACTED]

Email Address

University of Utah

Employer

Associate Research Professor

Job Title

[REDACTED]

Home Address

[REDACTED]

City

[REDACTED]

Primary Phone

[REDACTED]

Suite or Apt

[REDACTED]

State

[REDACTED]

Postal Code

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### Which Boards would you like to apply for?

Clark Planetarium Advisory Board: Submitted

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### Referred by:

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### Qualifications

#### Please tell us about yourself.

I'm a research professor at UU in the Geology and Geophysics Dept. I'm a planetary scientist, and I'm the PI for the US Antarctic Search for Meteorites program, which goes to Antarctic every year and searches for and recovers meteorites for the US collection. My wife and I live in Millcreek and I have a 7 year old daughter that is very interested in the CP and the opps it offers.

#### Why are you interested in serving on a board or commission?

I've been a member for the last three years, I've enjoyed it and hope to continue being part of that team for another three years.

#### What education, work experience, or volunteer experience do you have that applies to the board you are applying for?

I'm a planetary scientist, so I'm also fascinated by space and the planets, and I'm also interested in spreading the joys of science and education to the community.

James Karner

## What unique perspectives could you bring to the board?

Hmmm, I think I can bring a strong scientific understanding of planetary bodies, the solar system etc. I don't think that is unique, as there are several board members that are just as knowledgeable as me and make their livings as astronomers and physicists. I think I have a fairly good understanding and passion of outreach and education, and I think that makes my perspective important to the board.

[JK\\_CV.doc](#)

Upload a Resume

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## Demographics

Some boards and commissions require membership to be racially, politically or geographically proportionate to the general public. The following information helps track our recruitment and diversity efforts.

### Are you a Salt Lake County employee?

Yes  No

### Are you a current member of another Salt Lake County board or commission?

Yes  No

### Race/Ethnicity \*

### District \*

District 4

### Gender Pronouns \*

### Age Range \*

### Languages \*

English

### Political Affiliation

None Selected

**CURRICULUM VITAE**  
**Dr. James Michael Karner**  
**Research Assistant Professor, Dept. of Geology and Geophysics, University of Utah**

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**EDUCATION**

*Doctor of Philosophy*, (GPA = 3.7), Institute of Meteoritics, Department of Earth and Planetary Sciences, University of New Mexico, Albuquerque, NM, (2003).

*Master of Science*, Department of Earth and Planetary Sciences (GPA = 3.5), University of New Mexico, Albuquerque, NM, (1997).

*Bachelor of Science*, Department of Geology (GPA = 3.6), Bemidji State University, Bemidji, MN, (1994).

**PROFESSIONAL POSITION:** *Research Associate Professor*. Dept. of Geology and Geophysics, University of Utah, Salt Lake City, UT. Main work as Co-PI with the Antarctic Search for Meteorites (ANSMET) program includes organizing, facilitating and leading the yearly expedition to Antarctica to recover meteorites from blue-ice stranding surfaces. The Co-PI also continually works with the meteorite curators at NASA JSC and the Smithsonian to provide information relevant to recoveries, and general consultation about the allocation of ANSMET meteorites. Also, funded research on the partitioning of multi-valent elements (V, Cr, Ti) between minerals and melt in order to determine redox states of magmatism on small Solar System bodies (2014-2017, 2020-21).

**CURRENT FUNDING**

1: Source of Support: NASA Near Earth Object Observations

1. Title/ Abstract: *ANSMET: The Antarctic Search for Meteorites*
2. Award Amount: \$1.9 M
3. Period covered by Award: Sept. 2017 to Sept. 2022
4. Person-Months: 7.5 months per annum calendar year salary
5. Location: Case Western Reserve University; Antarctica (Co-PIs: Ralph Harvey, Jim Karner)

**PROFESSIONAL SERVICE WORK, VOLUNTEER ACTIVITIES**

- *Instructor- Spring 2021: GEO 3070 course “Mineralogy and Petrology for Engineers” at the University of Utah, Spring 2021. Fall 2020: “Earth and Terrestrial Planets” for GEO 5920 Special Topics at the U of Utah.*
- *Academic Senator- elected to the University of Utah Academic Senate by CMES to serve term from 2020-2023.*
- *Proposer and Session Chair: Proposed the topic, and selected presentations for a special session titled “50 Years of Planetary Research in Antarctica: Meteorites, Morphology, and Missions,” at the 51<sup>st</sup> Lunar and Planetary Science Conference 2020 (meeting cancelled due to COVID-19).*
- *Director- Appointed in 2018 by Salt Lake County Mayor McAdams to serve on Salt Lake County Planetarium Board of Directors for a three year term.*
- *Panelist: Selected to serve a three year term on NASA’s inaugural Antarctic Meteorite Allocation Panel (AMAP) which makes findings about allocation of requested samples and presents them to NASA.*
- *Consultant: Invited to consult and collaborate with newly formed Meteorite Subcommittee of the Extraterrestrial Materials Group (ExMaG), on ANSMET meteorite recovery and the their curation.*
- *Lecturer: Give several lectures/talks per year on meteorites and meteorite hunting in Antarctica to community museums, colleges and city educational programs, and professional science groups.*
- *Review Panelist: for week-long panels for proposals submitted to NASA Earth and Space Science Fellowship-Cosmochemistry, NASA Lunar Science and Exploration Research, and NASA Emerging Worlds program.*
- *Meteorite identification: Have identified hundreds of suspect meteorite samples at past institutions and the University of Utah, from the general public. I address about 50 emails and 20 in-person inquiries per year.*
- *Educational Outreach: Run a “Find the meteorite” activity several times per year at community science outreach events, i.e., UU Geology Department Open House, and the U Rock the Earth fair.*

**MEDIA HIGHLIGHTS OF RESEARCH**

- Feature story in the October 2020 online issue of the Lunar and Planetary Information Bulletin, 62, titled “Five things learned from the Antarctic Search for Meteorites” by J. Karner, R. Harvey, J. Schutt and B. Rougeux. <https://www.lpi.usra.edu/publications/newsletters/lpib/new/publication/issue-162-of-the-lunar-and-planetary-information-bulletin-october-2020/>
- Story in the September, 2019 edition of the UNews about the recovery of five lunar meteorites from the icefields at Davis-Ward, Antarctica. <https://unews.utah.edu/moon-meteorites/>