Research LAUNCHER Program

About You

First Name: __Matt__   Last name: __Hall__

Company/University: __Agile Geoscience — www.agilegeoscience.com__

Check which apply to you: ☐ Student   ☐ Non Student   ☒ Independent Researcher   ☐ Professor   ☐ Corporate Research   ☐ Other

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Short Bio: (250 words or less)

> Matt finished a PhD in sedimentology in 1997 at the University of Manchester, and joined Statoil, Stavanger, as a geologist. He got into seismic interpretation and scientific computing, then joined Landmark in Calgary in 2001 as a volume interpretation specialist. In 2005 he went back into an operating environment, joining ConocoPhillips as a geophysical advisor in oil sands and then exploration. Matt left to start Agile in 2011 where, along with 2 colleagues, he consults on geoscience and knowledge sharing and, builds web and mobile applications for geoscientists. Matt was involved in building AAPG Wiki in 2013–14, and is involved in maintaining and developing several other wikis.

Project Description

1. Name of project __Compiling an outcrop atlas in AAPG Wiki__

2. Brief synopsis/areas of geosciences or engineering (50-75 words)

Outcrop analogs of the subsurface are an important resource for student and professionals alike.

AAPG Wiki is an important new community-editable repository for geological information and data.

With some seed data and infrastructure, we can start a queryable, interactive database of outcrops.

3. Bullet list of 5-7 main outcomes/goals.

(1) 30–40 prototype examples of important outcrops. (2) A set of templates to make creating new

ones easy. (3) A set of semantic tags to allow queries. (4) Documentation and promotion of the result.

4. In two or three sentences, describe why your research is important. Please mention who will benefit from your work.

The entire geoscience community can benefit from this open, community-owned and -operated,

resource. With a bit of seed funding, we can quickly build a substantial and authoritative database.

5. Timeline with milestones (12 month/18 month) __Some of the most important infrastructure is already in place.__

First 3 months: develop ~5 prototypes and seek input on content and design from the community.

Next 3 months: mine up to 35 more from the literature and community; build sample queries & maps.

6. Funding amount needed to achieve first basic goals within 12 months. Please provide a brief summary overview of your budget. List costs of 5-10 main items. The only substantial cost is labour. A good way to get traction would be to visit at least 1 conference.

Cost: 20 weeks, 0.4 researcher, 0.75 × $200/hr = $48k. Conference = $2k. Total: $50k. Includes 25% non-profit discount.

7. In the process of gaining background knowledge in the field of your proposed research, who did you find to be the top two or three researchers? What are the main concepts that are being explored? Please briefly describe.

This project is a combination of technology development, literature review, and crowdsourced knowledge. The experts in the technology are Yaron Koren and Marcus Krotzsch, with whom I am in touch. The AAPG Bulletin is a sound source of literature. The membership itself will provide much of the expertise for the content. Another source is outcropedia.org, which this project is similar to but goes much further than.

8. Please provide a photo of yourself and a photo related to your proposed project. It will be very helpful in publicizing your project and potentially securing funding.

9. Who will benefit? The entire geoscience community, especially AAPG's members and student members. Beyond that, the resource could become a platform for new open datasets (e.g. logs), and geological conservation.

AAPG Research LAUNCHER supporters receive

The opportunity to work directly with you and receive reports, information, and findings, depending on the level of support.

The Deal

The researcher agrees to:

- ❖ Develop a brief public presentation on the research to be made available to AAPG
- ❖ Share an annotated bibliography and review of relevant published articles
- ❖ Present research findings on project at an AAPG Forum, GTW, or Research Symposium
- ❖ Write a detailed report on the results of your research to be made available to LAUNCHER supporters
- ❖ Write a extended abstract on the results of your research to be made available to AAPG

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Thank you for submitting your research proposal to the AAPG Research LAUNCHER Program. Your proposal will be reviewed and upon acceptance you will be contacted by AAPG Education/Research. If your proposal is accepted, we will publicize your proposal and encourage funders to contact you directly. AAPG does not guarantee funds nor have any connection with the success or failure of the endeavor. The goal is to support scientific research in the petroleum geosciences and engineering and launch the next generation of geological advances.

_____	30 June 2014	_____	_____
Research Candidate (print)	Date	AAPG Education/Research (print)	Date

_____	_____	_____	_____
Research Candidate (sign)	Date	AAPG Education/Research (sign)	Date