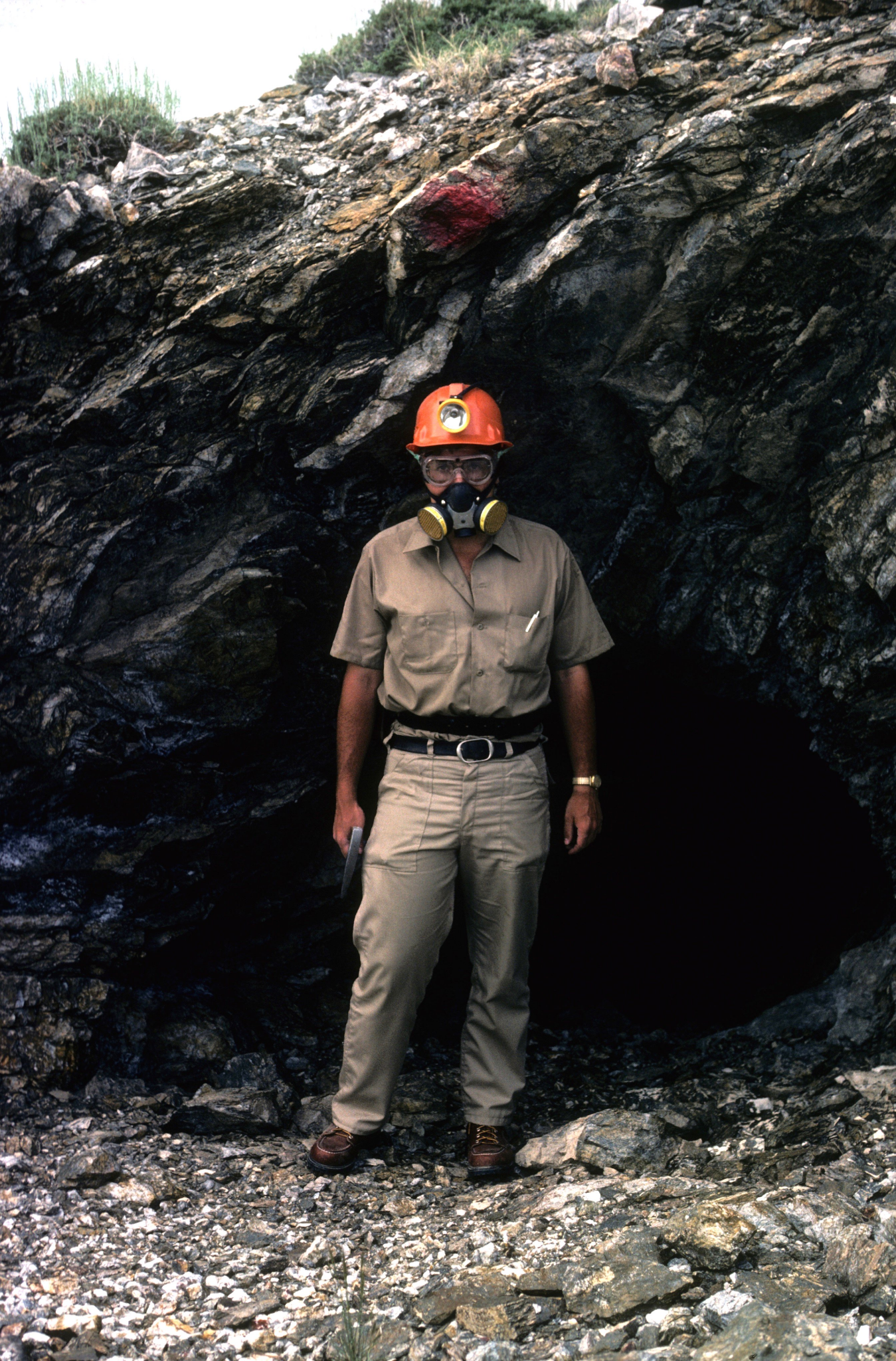


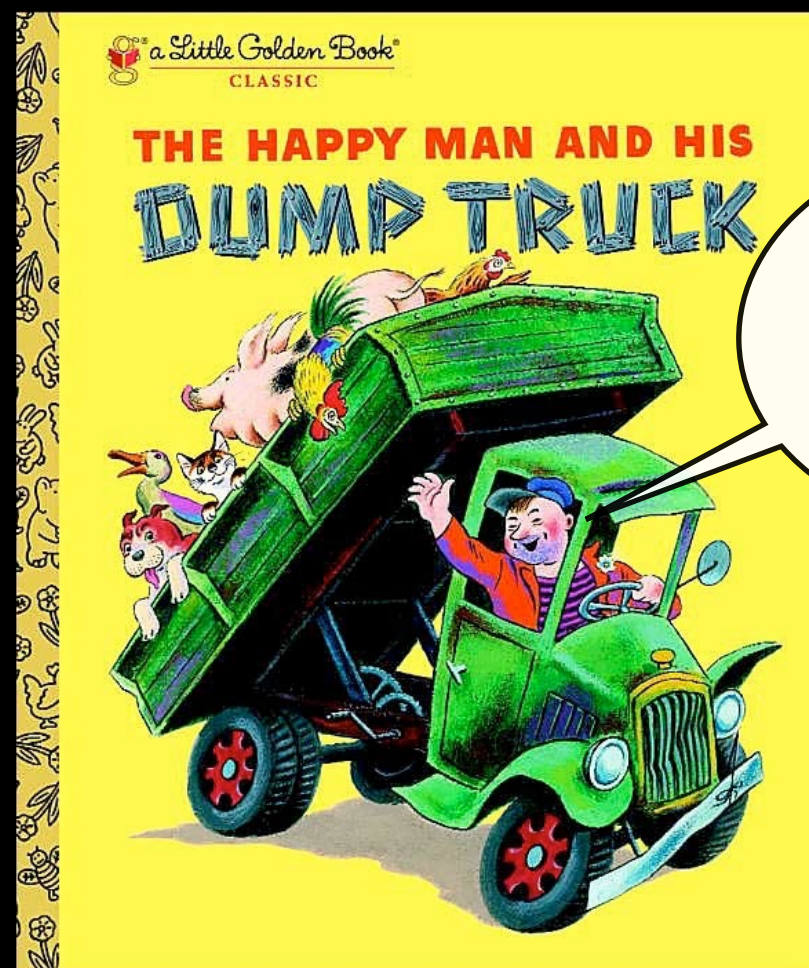
Some comments
in response
to receipt of the Dodson prize



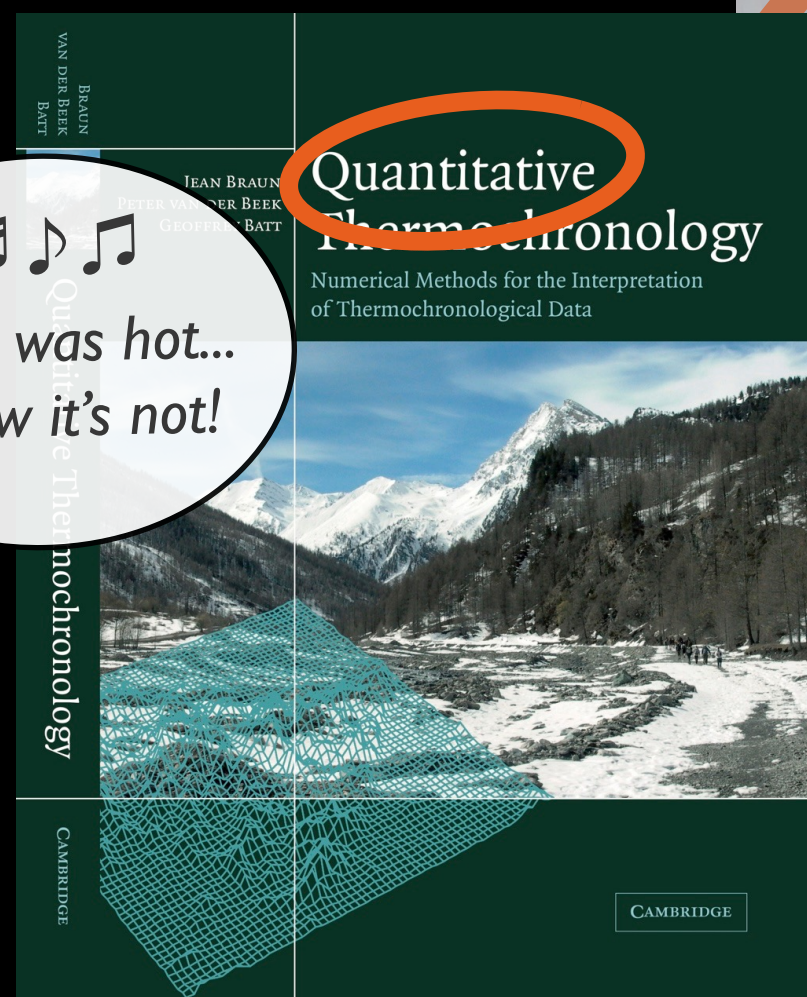
25 50 Years of Progress?



The Thermochronologist's Progress



Rock was hot...
...now it's not!



1119

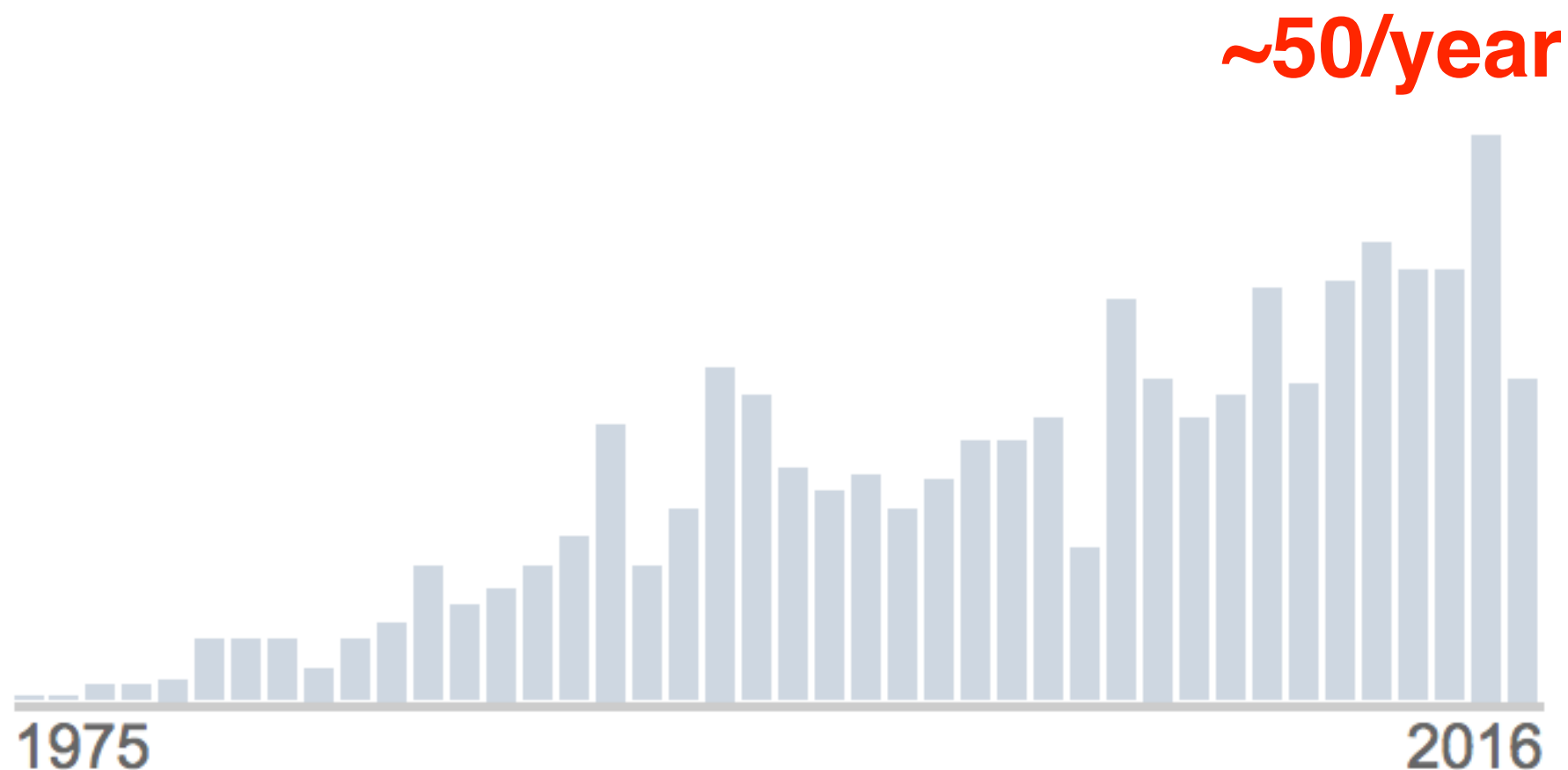
ITEMS CITE THIS ARTICLE

Closure Temperature in Cooling
Geochronological and Petrological Systems

CITATION RANK

99th PERCENTILE

CITATIONS PER YEAR



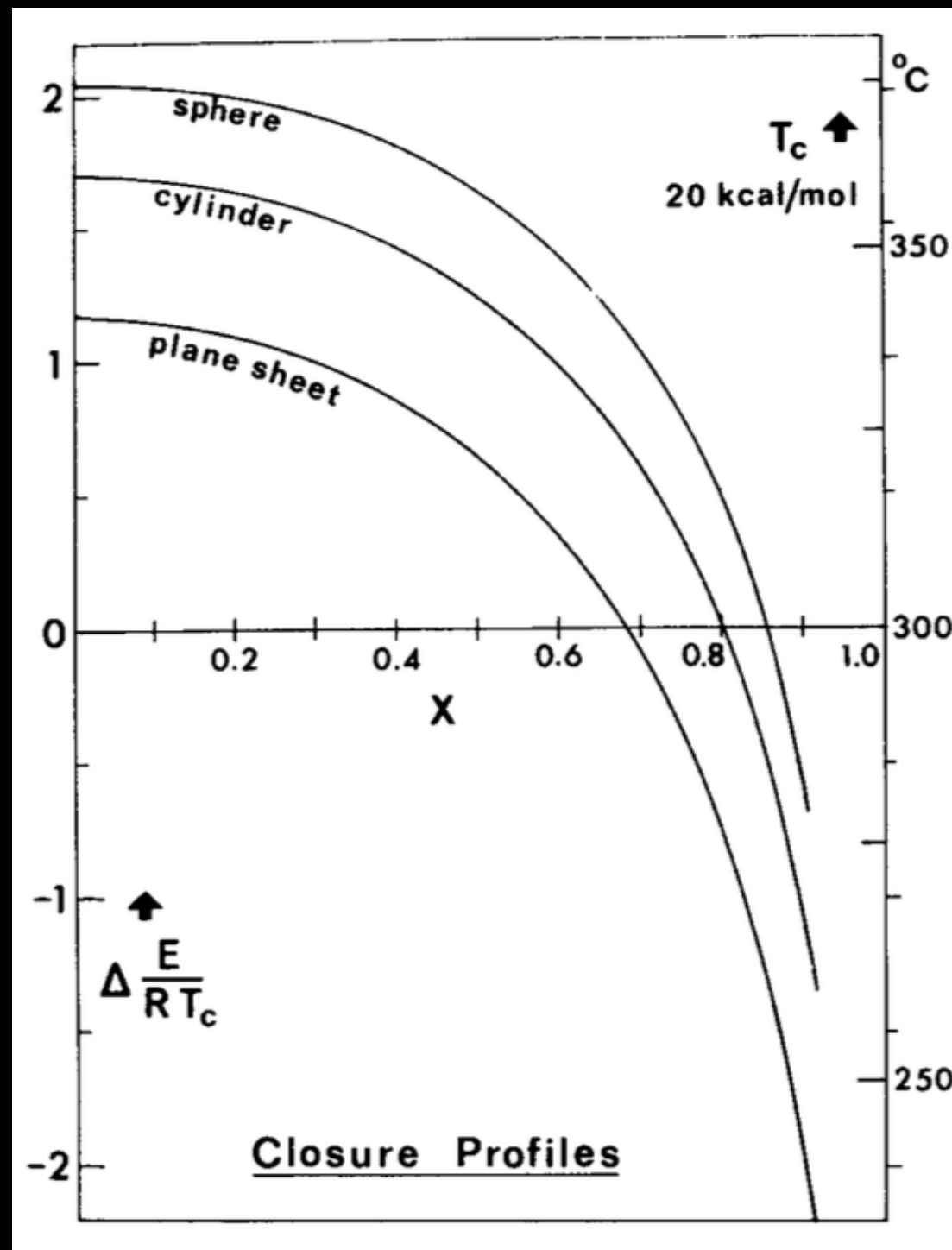
CLOSURE PROFILES IN COOLING SYSTEMS

M. H. Dodson

Department of Earth Sciences, University of Leeds
Leeds LS2 9JT, England

Materials Science Forum, Volume 7 (1986), pp. 145-154.

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Back to me...

PEOPLE THINK I'M
WORTHLESS, BUT IN
FACT I'M A SUBJECT-
MATTER EXPERT IN A
VERY
NARROW
FIELD.



Back to me... one view

PEOPLE THINK I'M
WORTHLESS, BUT IN
FACT I'M A SUBJECT-
MATTER EXPERT IN A
VERY
NARROW
FIELD.



www.dilbert.com scottadams@aol.com

IT'S SO NARROW
THAT IT REQUIRES
NO KNOWLEDGE
WHATSOEVER.



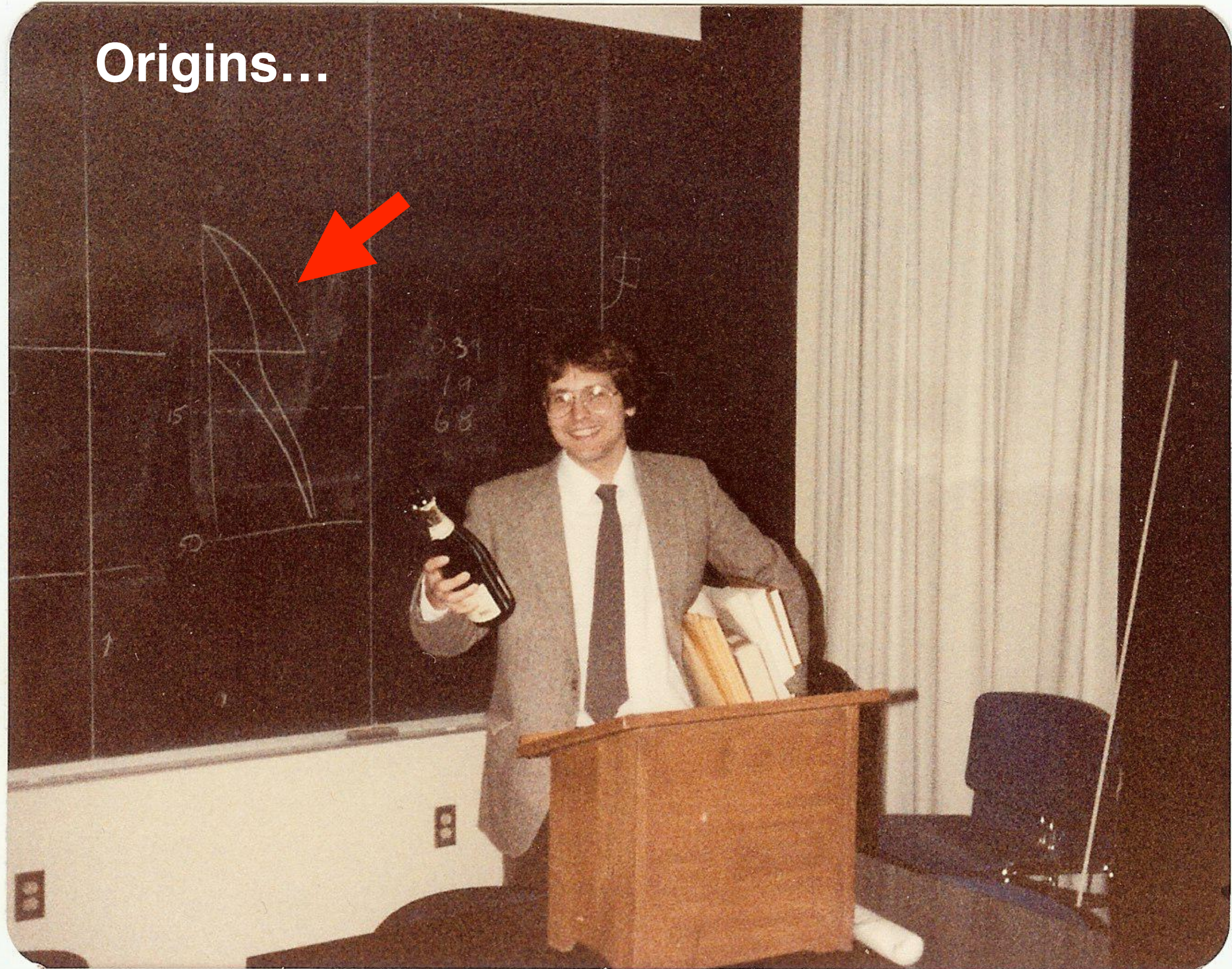
2-9-05 © 2005 Scott Adams, Inc./Dist. by UFS, Inc.

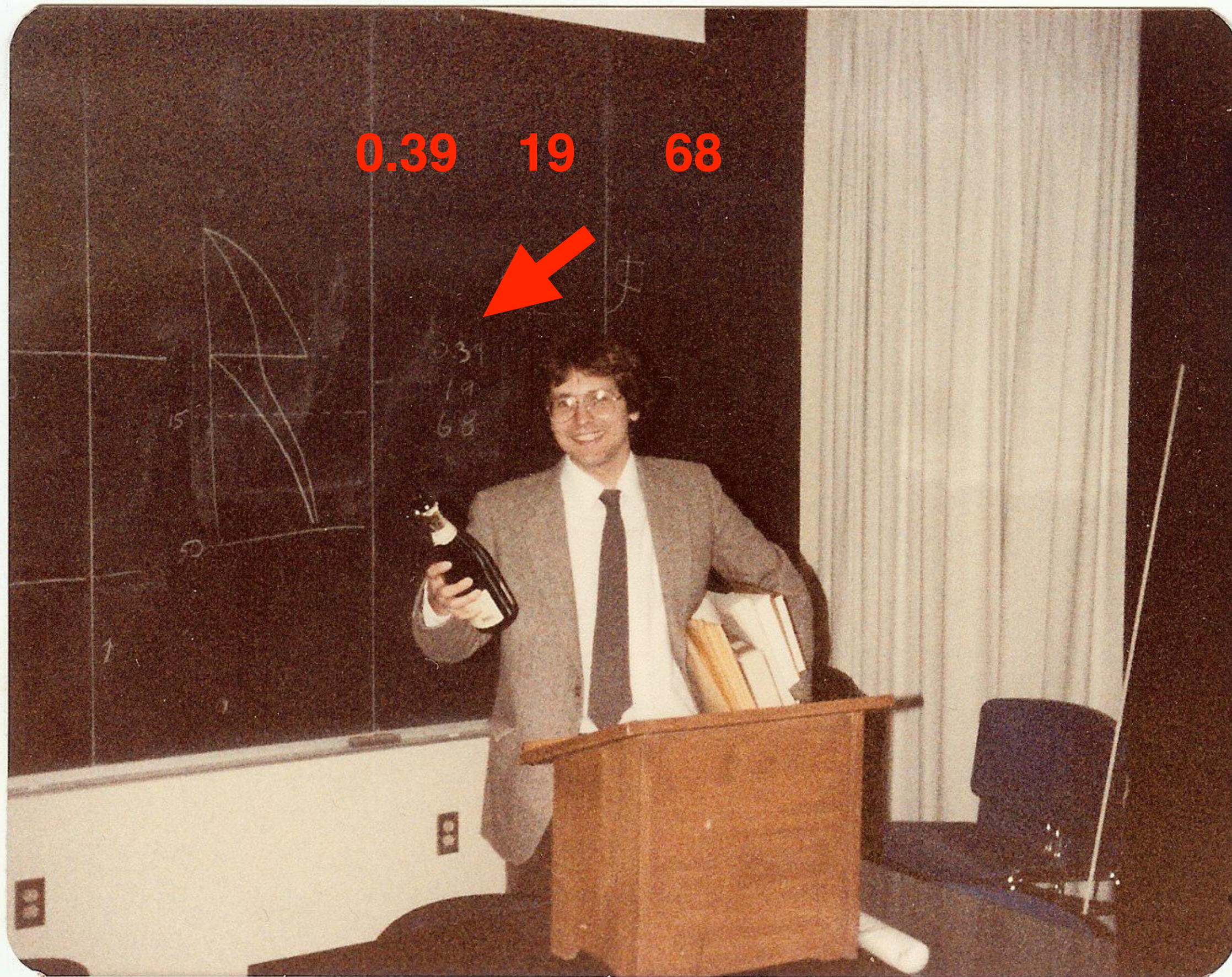
WHAT
FIELD
IS IT?

THERE'S
NO WAY
TO KNOW
FOR SURE.



Origins...

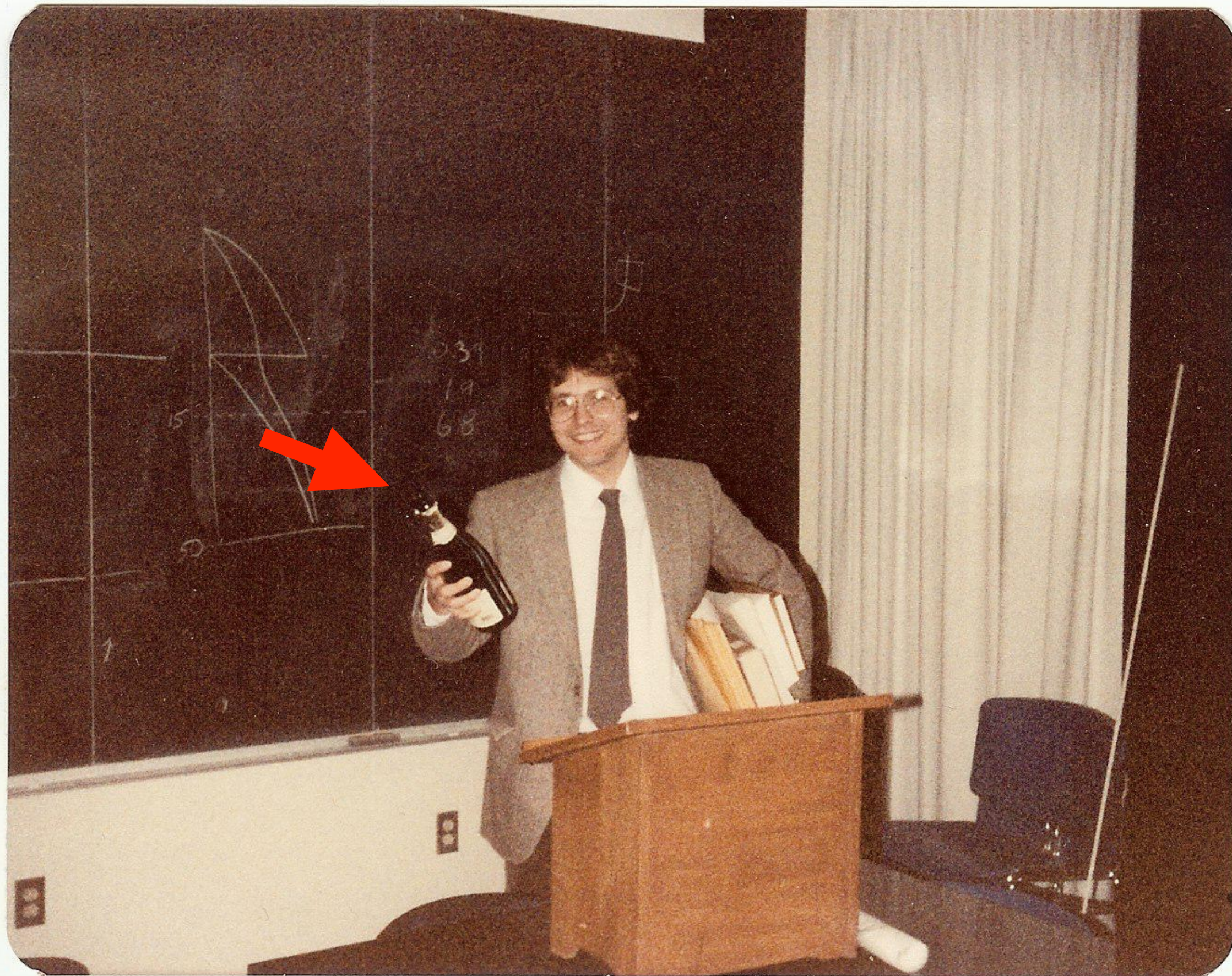


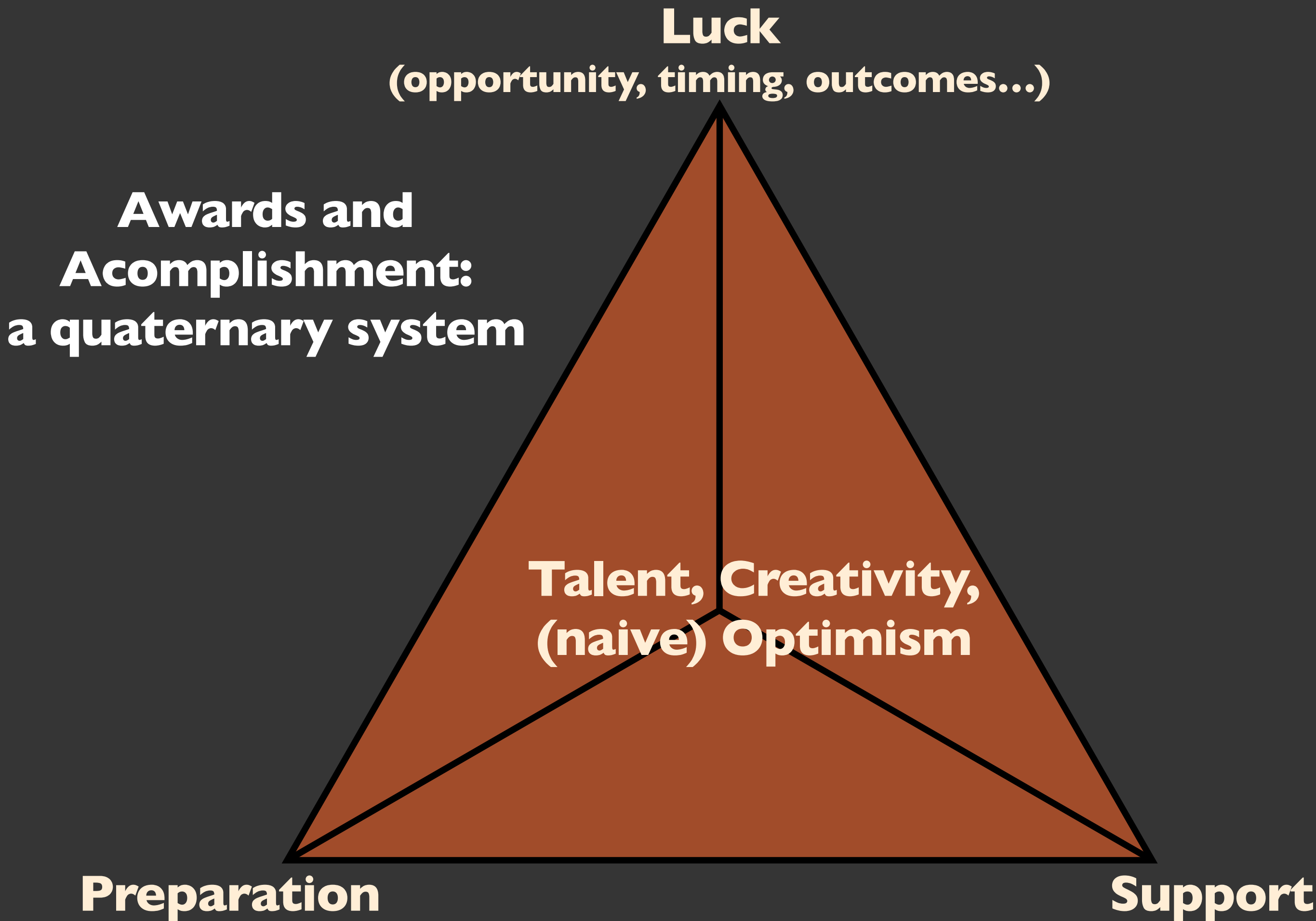


0.39

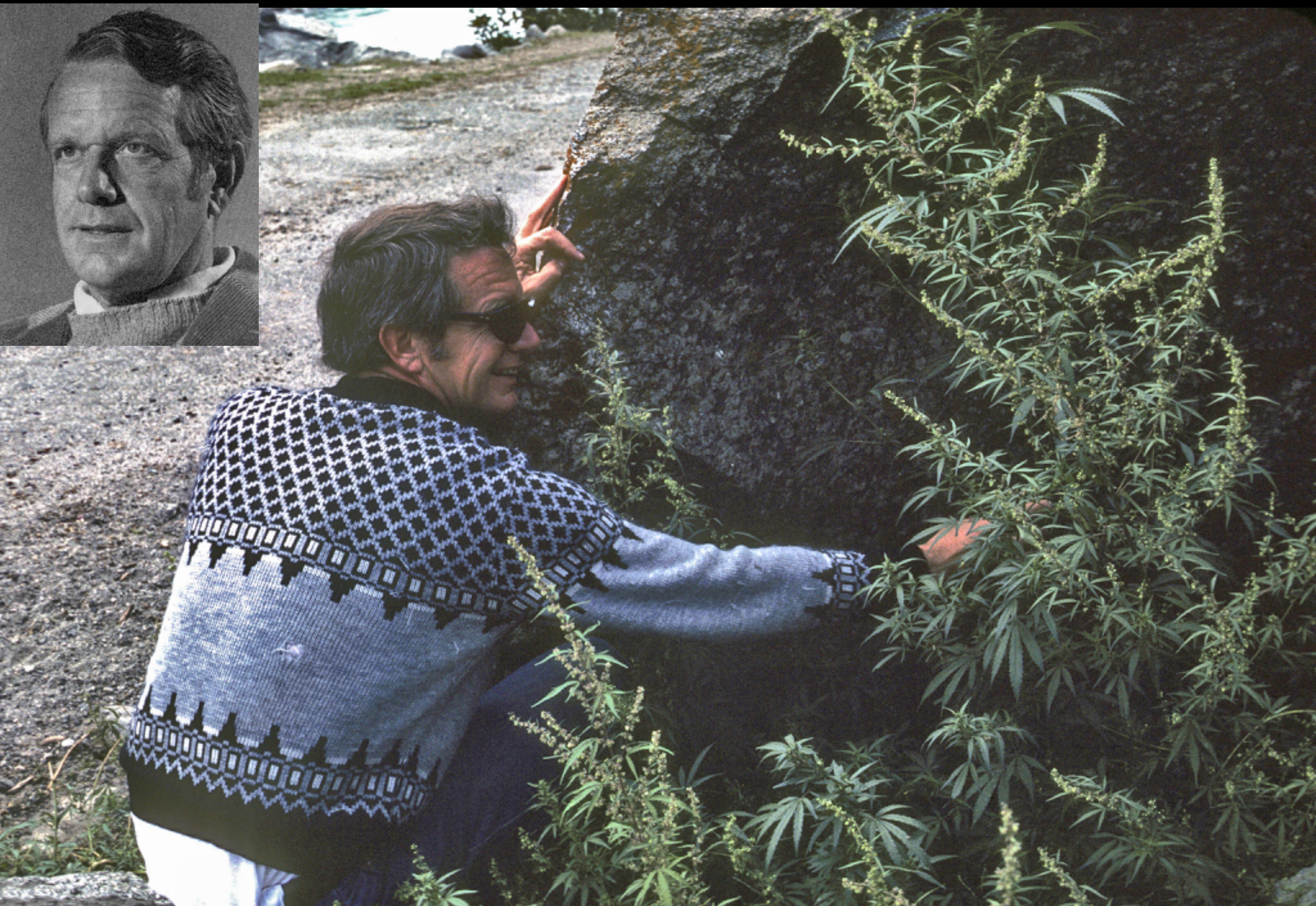
19

68





Noye Johnson (1930 – 1987)



Chuck Naeser



Ian McDougall



Page Chamberlain



Bill Kidd



```
Program deKoonser \n");  
...by PKZ (12 November, 2002)\n");
```

```
printf("  
printf("  
printf("\n");  
printf("Yo. This program extracts the coordinates of an isothermal surface\n");  
printf("from a sparse 4D data block emitted by one of Koons' dynamical 'models'.\n");  
printf("\n");
```

Peter Koons



Anne Meltzer, Bernard Hallet



David Shuster, Mark Harrison



MIA-man, Pete Reiners, Rich Ketcham (no picture!)



**More recently,
the Lehigh crew**

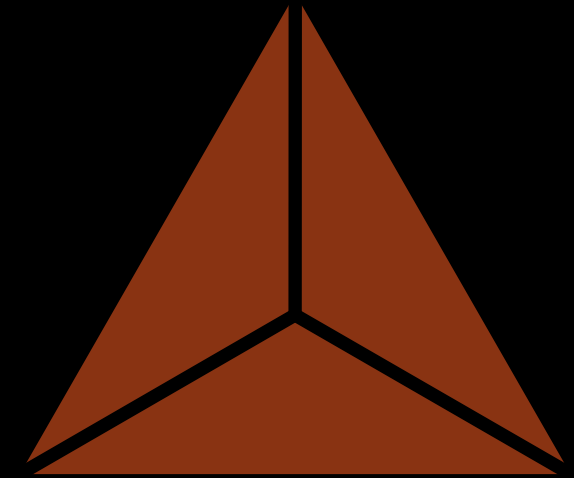


COOLING HISTORY OF THE NW HIMALAYA,
PAKISTAN

UPLIFT HISTORY OF THE NW HIMALAYA AS
RECORDED BY FISSION-TRACK AGES
ON DETRITAL SIWALIK ZIRCONS

ARGON DIFFUSION IN PARTIALLY OUTGASSED ALKALI
FELDSPARS: INSIGHTS FROM $^{40}\text{Ar}/^{39}\text{Ar}$ ANALYSIS

Saddleshaped $^{40}\text{Ar} / ^{39}\text{Ar}$ age spectra from
young, microstructurally complex potassium
feldspars



U-Th-He dating of apatite: A potential thermochronometer

P. K. ZEITLER, A. L. HERCZEG, I. MCDUGALL and M. HONDA

5.14 Tectonic Aneurysms and Mountain Building

PO Koons, University of Maine, Orono, ME, USA

PK Zeitler, Lehigh University, Bethlehem, PA, USA

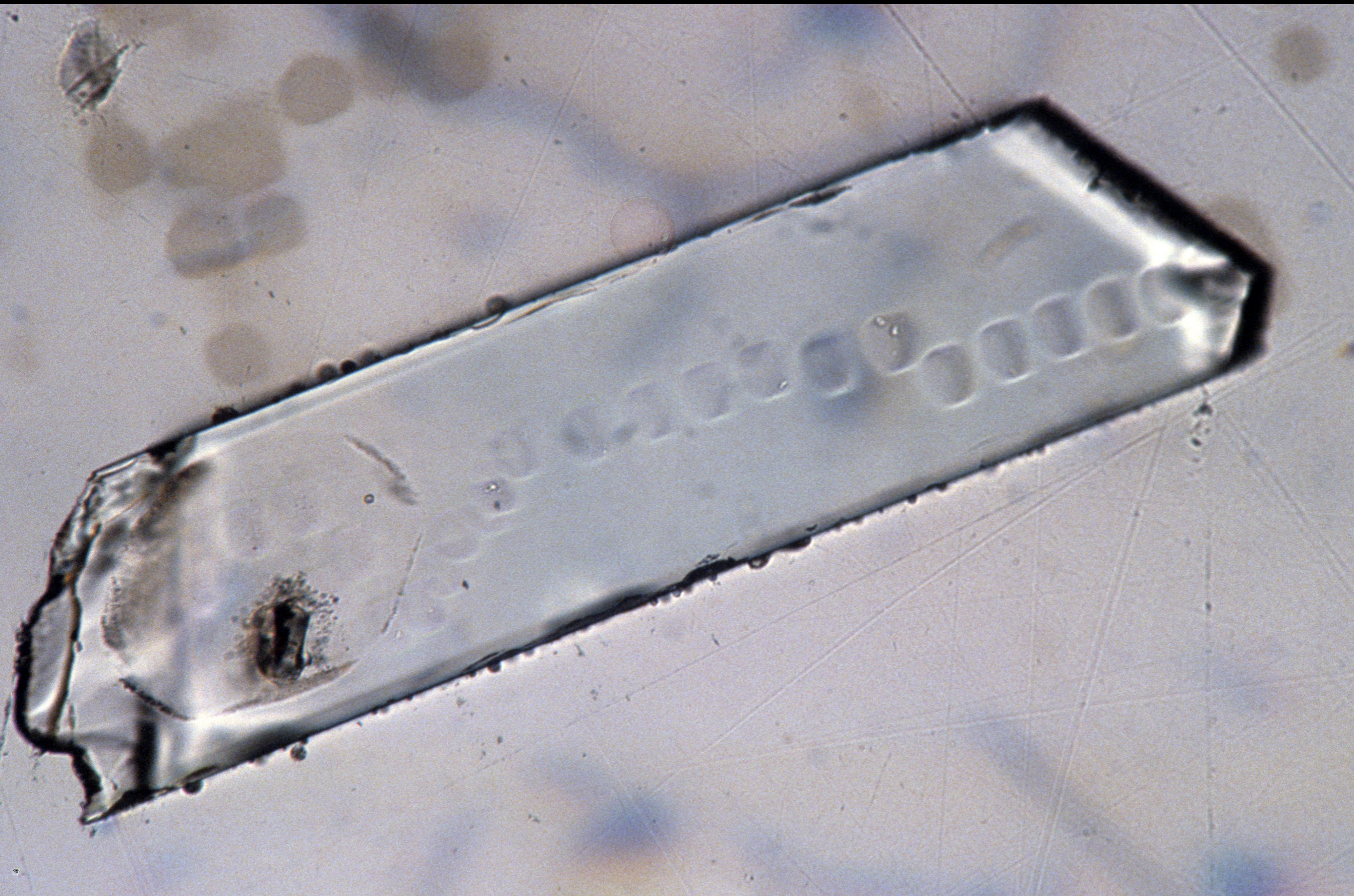
B Hallet, University of Washington, Seattle, WA, USA

**Erosion, Himalayan
Geodynamics,
and the
Geomorphology of
Metamorphism**

**Crustal reworking at Nanga Parbat, Pakistan:
Metamorphic consequences of thermal-mechanical
coupling facilitated by erosion**

**Synchronous anatexis, metamorphism, and rapid denudation
at Nanga Parbat (Pakistan Himalaya)**

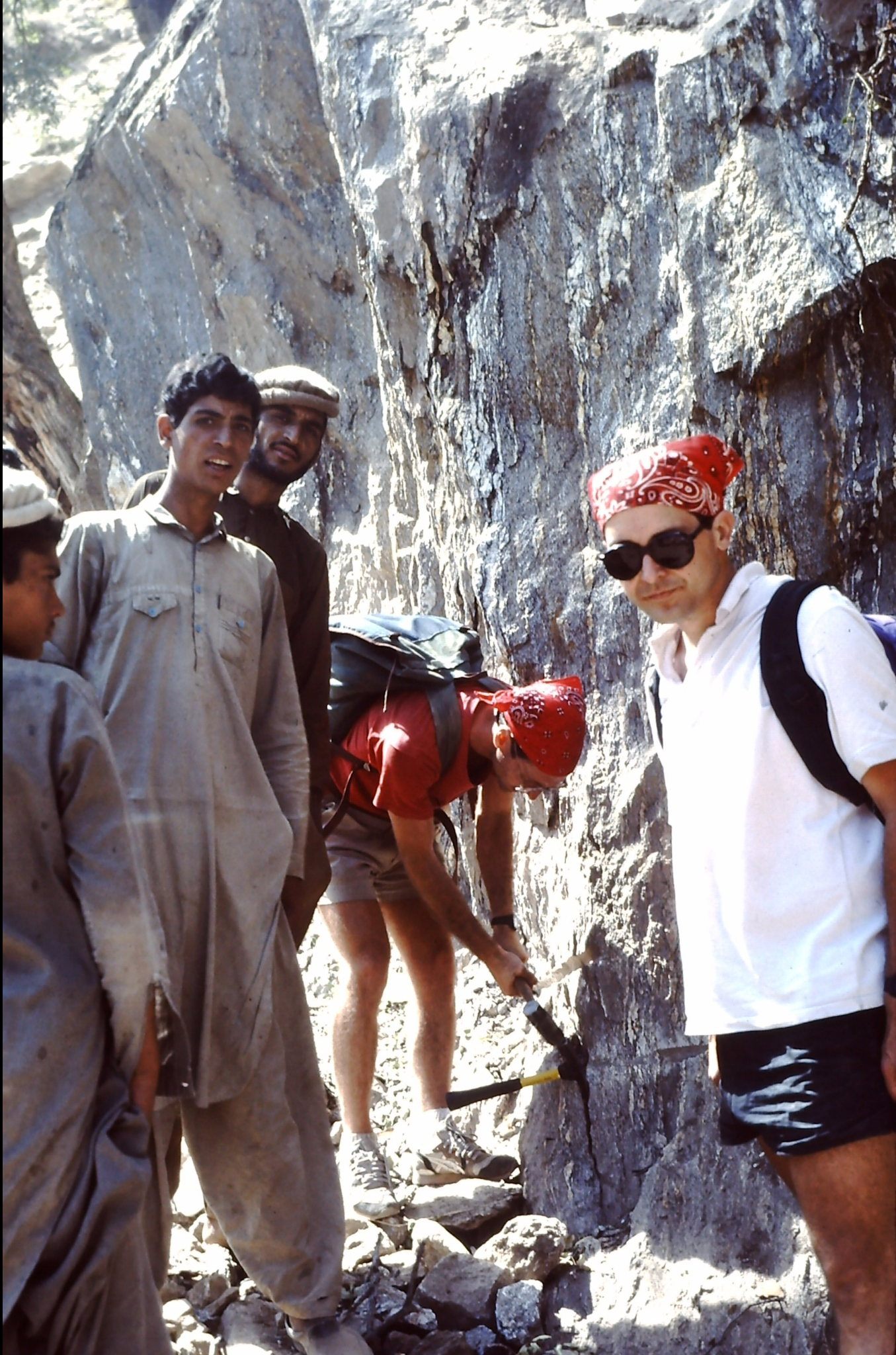
World's Best Zircon



Nanga Parbat and Namche Barwa

**(Naked Mountain
and
Standing Goddess)**







SYNOPTIC THERMOCHRONOLOGY OF NEW ENGLAND

PROJECT SUMMARY

Intellectual Merit

This project is an exploration of comprehensive regional thermochronology as a method of better understanding the thermal history of mountain belts. This novel approach, which we term 'synoptic thermochronology,' is highly relevant to the Earthscope program's mission of

Anticipated Challenges and Critique. We fully expect some challenges and obstacles to arise as Just mapping. We are in fact proposing to map the distribution of biotite cooling ages in New

"Earthscope" problems. Which ones can this biotite data set address? It is a **fishing expedition** in that sense. Past

U-TH/HE DATING OF SHALE, A POTENTIAL THERMOCHRONOMETER

INTEGRATED PROJECT DESCRIPTION

in the correction of grossly young ages (based on the pilot study). There also needs to be more discussion of how (and how many) samples will be analyzed for the U and Th work. The broader impacts of this proposal seem weak, with no discussion of how this work will benefit anyone other than a PhD student and the thermochron field.

The proposed research is original and innovative, but its stated goal is likely to be unachievable. Helium thermochronometry has problems with data reliability even under the most controlled conditions (i.e. single grains of well-studied minerals); the chances that comparable success can be attained with so much less control seem slim. The project is fairly cheap, but expensive enough that the secondary products (data collected along the way, training a single student) don't seem to be worth the price tag.

How clean is our laundry: Can we deliver the quantitative thermal histories that we promise?



Possible Steps

Community efforts to...

develop kinetic standards

maintain an open kinetic database

streamline analytical techniques (higher n !)

systematize techniques, data handling

update open-source models

coordinate systematic experiments on kinetics (role of imperfections)





Diffusing the delegates

Distance to dinner bar

Step distance

Step frequency

Steps

Distance

Duration

Diffusing the delegates

Distance to dinner bar

100 m

Step distance

0.5 m (ceciles)

Step frequency

0.83/s

Steps

Distance

Duration

Diffusing the delegates

Distance to dinner bar

100 m

Step distance

0.5 m (ceciles)

Step frequency

0.83/s

Steps

40,000

Distance

20 km

Duration

13.9 hours

Awards Nominations Process







