

MEMORANDUM

TO: Bob McFarland, Graduate Studies

FROM: W.D. Means, Chairman, Dept. of Geological Sciences *W.D. Means*

DATE: June 22, 1982

SUBJECT: External evaluators for review of Geology programs

I have Warren Ilchman's memorandum of 9 June advising us of the upcoming review of our graduate and undergraduate programs. I list below the names of some outside scholars qualified to take part in the review process. There are two Groups, representing the two main fields covered by our programs. We suggest that at least one evaluator be picked from each Group. The numbering within groups represents our estimation of the relative suitability of the candidates.

You will note some departures from your instructions. We have made no attempt to distinguish between scholars more suitable for reviewing the graduate or the undergraduate program. This distinction may make sense in some disciplines, but it does not in ours. It is normal for geology faculty at good universities to teach at both levels and to be seriously interested in undergraduate teaching as well as graduate training and research. Professor Peter Wyllie (below) is an excellent example of this. He teaches large introductory courses, has written a popular introductory text, yet also stands at the top nationally as a research worker, as long-term Editor of one of our best journals, etc. (The distinction in our field between undergraduate and graduate faculty breaks down because even at the undergraduate level it is necessary and desirable to expose Geology students to major unsolved problems and to the research excitement surrounding them.)

We have also departed from your instructions by including one candidate from New York, one from Illinois, and one from California. The fact is that the pool of first-rate scholars in the Northeast excluding New York, who are conversant with geology programs like ours, is very small.

TECTONICS/STRUCTURAL GEOLOGY

- (1) Clark Burchfiel. Professor, Massachusetts Institute of Technology. Ph.D. Yale, 1961. Tectonics; orogenesis and its relation to plate boundary activity; structural geology. (Department of Earth and Planetary Sciences, M.I.T., Cambridge, Massachusetts, 02139).

- (2) C. Barry Raleigh. Professor and Director, Lamont-Doherty Geological Observatory, Columbia University. Ph.D. Univ. of California, Los Angeles, 1963. Until last year: Branch Chief, Earthquake Tectonics Branch, National Center for Earthquake Research, U.S. Geological Survey, Menlo Park, California. Experimental deformation of rocks; earthquake triggering by fluid injection; rock mechanics (Lamont-Doherty Geological Observatory, Palisades, New York 10964).

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- (3) Jan Tullis. Associate Research Professor, Brown University.
Ph.D., University of California, Los Angeles, 1971. High temperature and pressure rock deformation; flow laws of crustal rocks; evolution of microstructure and preferred orientation. (Department of Geological Sciences, Brown University, Providence, Rhode Island, 02912).

PETROLOGY/GEOCHEMISTRY

- (1) Peter Wyllie. Professor, University of Chicago. Ph.D. University of St. Andrews, 1958. Igneous and metamorphic petrology, experimental petrology; application of experimental studies to batholiths, andesites kimberlites, and carbonatites. Under consideration as new Chairman, M.I.T. (Hinds Geophysical Laboratory, Univ. of Chicago, 5734 S. Ellis Ave., Chicago, Illinois, 60637).
- (2) Bruno Giletti. Professor, Brown University. Ph.D. Columbia University, 1957. Kinetics of geological processes, especially diffusion; isotopic age determination of rocks; distribution and abundance of radioactive and stable nuclides in the earth (Department of Geological Sciences, Brown University, Providence, Rhode Island, 02912).
- (3) James Gill. Associate Professor, University of California, Santa Cruz.
Ph.D. Australian National University, 1972. Isotope geology; petrology and geochemistry of island arcs (Earth Sciences Board of Studies, Univ. of California, Santa Cruz, California, 95064).

May I suggest that, as a courtesy and to help you get an affirmative answer, you let me write informally to any of these people you want to approach, advising them that the Department has suggested their name and that we hope they can say yes to your forthcoming official invitation.

WDM/dlp