Approved by the Regents
May 20, 2010

PROMOTION RECOMMENDATION
The University of Michigan
College of Literature, Science, and the Arts

Ingrid L. Hendy, assistant professor of geological sciences, College of Literature, Science, and the Arts, is recommended for promotion to associate professor of geological sciences, with tenure, College of Literature, Science, and the Arts.

Academic Degrees:

Ph.D.	2000	University of California, Santa Barbara
M.Sc.	1995	University of Waikato
B.Sc.	1992	University of Waikato

Professional Record:

2002 – present	Assistant Professor, Department of Geological Sciences, University of Michigan
2000 – 2002	Postdoctoral Fellow, Department of Earth and Ocean Sciences, University of British Columbia

Summary of Evaluations:

Teaching – Professor Hendy has accumulated a solid record of diverse teaching in her department and she has contributed significantly to maintaining strength in the oceanography undergraduate curriculum. Her mainstay has been introductory oceanography, but she also regularly offers high-enrollment mini-courses in the history of oceans and in coral reefs. Recently, she added a freshman seminar course on ice ages. At the graduate level she has taught Cenozoic stratigraphy and climate/global change.

Research – Professor Hendy's field of expertise is paleoceanography, which uses the marine sedimentary record to understand past changes in climate and oceanography. It is an interdisciplinary field that requires expertise in marine geology, micropaleontology, sedimentology, geochemistry, and ocean and atmospheric sciences. Professor Hendy has strategically focused her attention on the centennial- and millennial-scale aspects of the paleoceanographic record which are most relevant to understanding future climate change and its potential for societal and environmental aspects. She has published 25 research articles in the top peer-reviewed, Earth science journals in her field. Five of these are first-authored by students and another two by postdoctoral scholars under her supervision. She is also coauthor of a book, *The Role of Methane Hydrates in Late Quaternary Climatic Change: The Clathrate Gun* Hypothesis (American Geophysical Union Special Publication, 2002). She has received consistent funding from the National Science Foundation since 2003.

Recent and Significant Publications:

"Ventilation of the abyssal Southern Ocean during the Late Neogene: A new perspective from the subantarctic Pacific," with L. M. Waddell, et al. *Paleoceanography*, 24, 2009, doi: 10.1029/2008pa001661 PA3206.

"A fresh perspective on the Cordilleran Ice Sheet," *Geology*, 37(1), pp. 95-96.

"California current system response to late Holocene climate cooling in southern California," with J. Fisher, *Geophysical Research Letters*, 35(9), 2008, L09702 (4p.) doi: 10.1029/2008GL033902.

"Carbon evidence for methane hydrate instability during late Quaternary interstadials," with J. K. Kennett, et al., *Science*, 288(5463), 2000, pp. 128-133.

Service – Professor Hendy served as departmental ombudsperson, on the Student Awards Committee which she also chaired, the Turner Award Committee, the Graduate Admissions Committee, and as organizer of the Smith Lecture Series. This year she ran the New Zealand field trip and chaired the Turner Awards Committee. Professor Hendy has also served on funding panels and as a reviewer for the National Science Foundation. She has been a reviewer for *Geology*, *Quaternary Science Reviews*, *Marine Geology*, and *Paleoceanography*, among others.

External Reviews:

Reviewer (A)

"...she has built a commendable record of research productivity, publishing numerous papers in high-quality journals. ... Her joint work on [the] Santa Barbara Basin is a hard act to follow, but during the last nine years she has continued to make significant contributions to the understanding of the late Quaternary marine sediment record along the western North American margin. ...Hendy has shown a solid capability of running an independent, funded research enterprise involving shipboard and laboratory work and involving graduate student participants."

Reviewer (B)

"It is clear to me from reading her research statement and seeing her more recent work that Ingrid has developed and is executing an independent research strategy that will help to resolve many of the outstanding questions about the causes of the Dansgaard-Oeschger and Heinrich Events. ...Ingrid identifies important problems and follows through with excellent papers. ...she is following through with studies that sort out the details and also evaluates competing hypotheses to explain the nature and causes of the climate variability."

Reviewer (C)

"Ingrid's scholarly contributions have been impressive. ...she has demonstrated sustained productivity during her time at Michigan, publishing new work in top quality journals. The papers I have reviewed are well thought out, extremely thorough and reflect the high standards of these journals. ... Her record of procuring external funding is very strong for someone in our field. ...she has a good record of service to her community and is well regarded in her field."

Reviewer (D)

"...Hendy is on par with the best of the candidates I've been asked to evaluate. She hit a home run with her Ph.D. dissertation and has followed that up with a strong and steady stream of scholarly output that indicates solid personal growth and diversification of research interests. There is no doubt she is a respected player on the national and international scene."

Reviewer (E)
"I see no weaknesses in Dr. Hendy's file or her work. I am always eager to read her papers and have been impressed over the years by the quality of her work. I think her NSF awards, her obvious success in mentoring graduate and undergraduate students, her burst of productivity in recent years, and most of all, her systematic and innovative research approach to examining North Pacific millennial-scale climate variability, are clear evidence to support a decision of promotion with tenure."

Reviewer (F)
"…Ingrid is one of the best scientists [of her generation] in our field. …[she] continues to be one of the leaders in constraining paleoclimate in the Pacific. … Ingrid shows great promise for excellent work in the coming years. She is well-trained, has clearly set out on her own on good, new problems, and is continuing to dig deep into areas she knows well."

Reviewer (G)
"I have no hesitation in recommending promotion to Associate Professor with tenure, as I think Ingrid is a recognized and rising star in the field. …Ingrid's high level of productivity and scientific impact have blossomed in her time at the University of Michigan. …[her] research work is published in first-rate journals, and it is high in both quantity…and more importantly in scientific quality."

Reviewer (H)
"…Ingrid is highly deserving of promotion and tenure. Her research is innovative and exciting, she is publishing high quality papers, including with her students, and she has established an international reputation that brings credit to the University of Michigan. To me, Professor Hendy is on a clear upwards trajectory. I expect more great work from her in the years ahead."

Summary of Recommendation:
Professor Hendy has a well established and well regarded research program in paleoceanography. Her teaching contributions have been significant and she provides substantial service to her discipline. The Executive Committee of the College of Literature, Science, and the Arts and I recommend that Assistant Professor Ingrid L. Hendy be promoted to the rank of associate professor of geological sciences, with tenure, in the College of Literature, Science, and the Arts.

Terrence J. McDonald
Arthur F. Thurnau Professor,
Professor of History and Dean
College of Literature, Science, and the Arts

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