

Planning for the Year Ahead (2018)

Professor Vince Cronin (9-month tenured contract), version of 23 December 2017

Teaching Goals and Plans:

- (1) I will teach two sections of Geosciences 1405 (3 weekly contact hours in lecture sections) during the spring semester and one section during the fall semester.
- (2) I supervise all laboratory sections of Geosciences 1405 and all of the associated graduate teaching assistants during both the spring and fall semesters. This includes setting-up and taking-down the labs, organization and maintenance of lab samples and other resources, creating all of the lab quizzes and quiz keys, and running weekly hour-long TA meeting to review the coming-week's lab.
- (3) I teach one section of Geosciences 3445 and the associated laboratory (5.75 weekly contact hours total) during fall semesters. I currently plan to consolidate laboratory materials into a draft lab book for this course.
- (4) I might need to teach a course on active faulting for a new MS structural-geology student, if one is available for the fall semester.
- (5) I continue to author, edit, and pay for private web resources that support my teaching function at Baylor (e.g., <http://croninprojects.org/Vince/Course/PhysGeol/index.htm>, <http://croninprojects.org/Vince/Course/IntroStructGeol/index.htm>, <http://croninprojects.org/Vince/Course/Fault-Geology/index.htm>, <http://croninprojects.org/Vince/PlateKinematics/KinematicsCourse/index.htm>).

Research/Creative Work Goals and Plans:

- (1) I will begin work as Editor of the 12th edition, AGI/NAGT Laboratory Manual in Physical Geology, probably in March 2018.
- (2) The Instructor Manual associated with the 12th edition, AGI/NAGT Laboratory Manual in Physical Geology will be developed in parallel with the revision. I am the author of the Instructor Manual.
- (3) I will begin work on a primer on plate kinematics for Cambridge University Press, tentatively with Richard Gordon (Rice), Josh Davis (Carleton), and Phil Resor (Wesleyan). A working draft of that primer is used in my plate-kinematics course (<http://croninprojects.org/Vince/PlateKinematics/KinematicsPrimer/index.htm>). In 2018, this will involve development of the book plan/outline, and some initial writing of text and code.
- (4) I will submit an abstract for presentation at the UNAVCO Science Workshop in Broomfield, Colorado, 27-29 March 2018

- (5) I will submit an abstract for presentation at the "Resources for Future Generations" meeting in Vancouver, 16-21 June 2018
- (6) I will submit an abstract for presentation at the "Earth Educators' Rendezvous" meeting in Lawrence, Kansas, 16-20 July 2018, where I will also engage in development and adopter-support activities for the AGI/NAGT lab manual
- (7) I will submit an abstract for presentation at the "Geoscience and Society Summit" in Bermuda, 23-28 September 2018
- (8) I might organize a symposium/theme session on GeoEthics, or submit an abstract on another topic, for the GSA meeting in Indianapolis, Indiana, 4-7 November 2018
- (9) I will submit an abstract for presentation at the AGU meeting in Washington DC, 10-14 December 2018
- (10) I will create draft (or perhaps final) videos of certain laboratory experiments to support users of the AGI/NAGT lab manual. It is likely that the final video products will be made available via a Pearson website.
- (11) I will supply geoscience photographs and associated metadata to the American Geosciences Institute for inclusion in AGI's Earth Science World image bank (<http://www.earthscienceworld.org/images/index.html>). I will also continue to take geological specimen photographs for use in teaching and publication, including photos made using focus-stacking technology that I have personally acquired.
- (12) I hope to work with one or more undergraduate geoscience students to conduct small research projects whose results they can present at the GSA Annual Meeting in fall 2018.
- (13) Other research projects that might be advanced in 2018, given time and opportunity, include the following:
 - Work with a new graduate student to conduct resistivity surveys across suspected traces of faults near Truckee, California
 - Begin work on a paper about the use of SLAM to identify the fault responsible for the Yountville and Napa earthquakes, with Tori Worrell. An abstract of this work might be submitted for presentation at the AGU Fall Meeting in December 2018.
 - Work with a new graduate student to search for the fault that produced the M6 Wells earthquake in February 2008.

Service/Academic Citizenship Goals and Plans:

- (1) I will continue to serve as Co-Chair of the US Section of the *International Association for Promoting Geoethics* (<http://www.geoethics.org>), along with Dr. Cindy Palinkas (University of Maryland), during 2017.
- (2) I will continue to serve on the Incorporated Research Institutions for Seismology (IRIS) Education and Public Outreach standing committee

(https://www.iris.edu/hq/about_iris/governance/epo), including at least two committee meetings each year in September and February/March.

- (3) I will continue to serve on the Program Committee for the 2018 AGU-sponsored meeting "Geoscience and Society Summit: Bridges to Global Health, Resilience, and Sustainability" to be held 23-28 September 2018 in Bermuda (<https://publications.agu.org/geoscisociety/>).
- (4) I will serve as session co-chair (with Giuseppe Di Capua, Peter Bobrowsky, Silvia Peppoloni, and Stefano Tinti: Session RS9, "Geoethics in georisks management for a safer and more resilient society") for the IUGS-sponsored meeting "Resources for Future Generations" to be held 16-21 June 2018 in Vancouver, Canada (<http://www.geoethics.org/rfg2018>).
- (5) I will help with the E&O activities at the 2018 UNAVCO Science Workshop, 27-29 March in Broomfield, Colorado, including demonstrations of various physical models of faulting and crustal deformation.
- (6) I will continue to serve as Baylor's Institutional Representative to the UNAVCO and WInSAR Consortia, and as the secondary Institutional Representative to the IRIS Consortium. I attend the annual business meetings of these organizations during the fall AGU meeting.
- (7) I will continue to serve as the contact person for US Array seismograph station WHTX near Lake Whitney, Texas, (<http://ds.iris.edu/mda/TA/WHTX>, <http://ds.iris.edu/ds/nodes/dmc/tools/stationmonitor/TA/WHTX/>) and accompany the technician whenever repair, upgrade, or maintenance is needed.
- (8) If recent years are any indication, I will serve as a panelist for the National Science Foundation on perhaps two or three proposal-review panels.
- (9) If recent years are any indication, I will present an invited workshop, keynote, oral, or poster presentation about geoethics at one or more regional or national meetings of professional geoscience societies.
- (10) I will assist the American Geosciences Institute and the National Association for Geoscience Teachers to promote/market the eleventh edition of the AGI/NAGT Laboratory Manual in Physical Geology, for which I serve as Editor, at meetings of the NAGT (Earth Educator's Rendezvous), GSA, and AGU during 2017.
- (11) If a suitable MS-level graduate student interested in structural geology or tectonics enrolls at Baylor in the fall of 2018, I will begin working with that student as advisor.
- (12) I might serve as a lector or Eucharistic minister at St. Jerome's Catholic Church during 2018.
- (13) I will serve as an Assistant Scoutmaster for BSA Troop 308 during 2018.

Date