Class times:
- **Department seminar**: M 3:30-4:30 pm, ZHS 159
- **Discussion section**: M 2:00-2:50 pm, ZHS 118

Instructors:
- Prof. John Vidale – jvidale@usc.edu, (310-210-2131), office hours by appointment, 107 ZHS

Units: 2

Introduction
This 2-unit class will meet twice per week for one hour, structured around a Monday afternoon lecture from a guest speaker. We will meet Monday prior to each lecture to discuss a publication relevant to the talk topic recommended by the speaker. We will distribute the paper on the Tuesday prior to the discussion.

Assignments
Students’ responsibility for this class is to attend the weekly seminars, carefully read and critically assess related papers, summarize a key point of the topic, or identify and ask relevant questions, and participate in discussions in a collegial, constructive manner. In the last day of class, present a 3-minute video of your research goals that incorporates the lessons you have learned during class.

Weekly assignments
1. Read assigned paper prior to Monday discussion (reading assigned Tuesday, **complete reading by Monday 2pm**).
2. Attend the Monday 2 pm discussion with at least three questions on the reading for oral participation.
3. Attend the Monday lecture and ask question(s) at the end of the talk.
4. Submit a short synopsis of the seminar and describe things the speaker did that was effective. **due: Tuesday morning at 10am**

Summative assignment
5. Create a short PowerPoint or Keynote presentation (5 slides of material to summarize students’ thesis topic). Structure would typically include title slide, framing of scientific problems, summary of existing knowledge, and identification of where the targeted knowledge gaps lie.
6. Presentation of recorded 3-minute presentation in class on Monday, April 3.

Learning objectives
Students will be able to
- **Identify** research questions and recognize advances and remaining questions from the presentation of novel research findings in geoscience research talks and publications.
- **Summarize** scientific findings from synthesis of complex information.
  - Hone these skills through taking notes on lecture and reading, and refining understanding in discussion sections. Instructor assesses these skills as demonstrated in oral and written contributions.
• **Evaluate** effective scientific communication, assessed by oral discussion and short written summaries of what speakers did well.
  o Hone these skills through discussion sections. Assessed by short written synopses.
• **Contribute** to scientific discourse, assessed by participation in classroom discussions – in a constructive, collegial manner.
  o Opportunities include questions in the discussion section and following the lecture.
• **Create** a narrated PowerPoint or Keynote recorded talk that introduces a scientific research question, with reference to students’ thesis research.
  o Leverage the techniques and styles of speakers, and class evaluation of speakers in discussions, to improve students’ presentations.

**Grading**

Written assignments: 12 x 5% each = 60%
Weekly participation in discussions, lecture, and wiki responses: 20%
Final summative recorded presentation assessment: 20%

A = good to excellent grasp of academic research – comprehension and collegial discourse – performing at or above the expected level for the student’s career level.

B = fair grasp of academic research – comprehension and collegial discourse. Recommendation would be to continue to develop your skills, e.g., by retaking this seminar in future.

C = incomplete grasp of academic research – comprehension and collegial discourse – needs improvement to perform at graduate level, continue to develop your skills e.g., by retaking this seminar in future.

**Missed work and deadlines**

Full participation requires asking at least one question or making a comment during each weekly discussion section (following lecture optional/time dependent), and completion of the written assignments. Late work will have a penalty (max score 4% vs 5%).

Missing more than two weeks of class during the semester (participation and written assignments) requires advance approval and completion of alternative assignments (such as attending other seminars and submitting written work). Please contact the instructors with any questions and need for accommodations/support.

**Technology and participation**

We will be using Blackboard for class information and assignments. You can connect to Blackboard using your USC ID and password.

*Have trouble participating in class?* Contact the instructors to let them know and to be referred to resources for further technical/wellness support.
Lecture schedule and assigned reading:
The readings are journal articles that will be available via Blackboard for this course.

The fall semester is currently being scheduled, for illustration last semester’s seminars are listed.

<table>
<thead>
<tr>
<th>Date</th>
<th>Seminar</th>
<th>Title</th>
<th>Speaker</th>
<th>Location</th>
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<tbody>
<tr>
<td>1/09 Mon</td>
<td>Organizational meeting and introductions</td>
<td>Meet with your instructor Barbot and your classmates, be ready to introduce yourself.</td>
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<tr>
<td>1/23 Mon</td>
<td>Seminar: Seismology</td>
<td>The confusing gyrations of Earth’s inner core</td>
<td>John Vidale, Professor of Seismology, USC.</td>
<td><a href="https://science.org/doi/10.1126/sciadv.abm9916">Link</a></td>
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<tr>
<td>1/30 Mon</td>
<td>Seminar: Hydroclimatic</td>
<td>The magmatic web below Hawaii</td>
<td>John Wilding, California Institute of Technology</td>
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<td>2/6 Mon</td>
<td>Seminar: Rock Mechanics</td>
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<td>Heather Savage</td>
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<td>2/13 Mon</td>
<td>Seminar: Civil Engineering</td>
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<td>Buka Nweke</td>
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<td>3/06 Mon</td>
<td>Seminar: Mineral Physics</td>
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<td>Matej Pec</td>
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<td>3/20 Mon</td>
<td>Seminar: Paleo-oceanography</td>
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<td>Sophie Hines</td>
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<td>3/27 Mon</td>
<td>Seminar: Climate change</td>
<td>Meteorological and active fire suppression controls on wildfire spread in the Western U.S.</td>
<td>Tianjia (Tina) Liu, UC Irvine</td>
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<tr>
<td>4/03 Mon</td>
<td>Seminar: Moon geophysics</td>
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<td>Ananya Mallik</td>
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Statement on Academic Conduct and Support Systems - updated January 2020

Academic Conduct:
Plagiarism – presenting someone else’s ideas as your own, either verbatim or recast in your own words – is a serious academic offense with serious consequences. Please familiarize yourself with the discussion of plagiarism in SCampus in Part B, Section 11, “Behavior Violating University Standards” policy.usc.edu/scampus-part-b. Other forms of academic dishonesty are equally unacceptable. See additional information in SCampus and university policies on scientific misconduct, policy.usc.edu/scientific-misconduct.

Students please note that USC has a policy that prohibits sharing of any synchronous and asynchronous course content outside of the learning environment.

SCampus Section 11.12(B) Distribution or use of notes or recordings based on university classes or lectures without the express permission of the instructor for purposes other than individual or group study is a violation of the USC Student Conduct Code. This includes, but is not limited to, providing materials for distribution by services publishing class notes. This restriction on unauthorized use also applies to all information, which had been distributed to students or in any way had been displayed for use in relationship to the class, whether obtained in class, via email, on the Internet or via any other media. (See Section C.1 Class Notes Policy).

Support Systems:
Counseling and Mental Health - (213) 740-9355 – 24/7 on call studenthealth.usc.edu/counseling
Free and confidential mental health treatment for students, including short-term psychotherapy, group counseling, stress fitness workshops, and crisis intervention.

National Suicide Prevention Lifeline - 1 (800) 273-8255 – 24/7 on call suicidepreventionlifeline.org
Free and confidential emotional support to people in suicidal crisis or emotional distress 24 hours a day, 7 days a week.

Relationship and Sexual Violence Prevention Services (RSVP) - (213) 740-9355(WELL), press “0” after hours – 24/7 on call studenthealth.usc.edu/sexual-assault
Free and confidential therapy services, workshops, and training for situations related to gender-based harm.

Office of Equity and Diversity (OED) - (213) 740-5086 | Title IX – (213) 821-8298 equity.usc.edu, titleix.usc.edu
Information about how to get help or help someone affected by harassment or discrimination, rights of protected classes, reporting options, and additional resources for students, faculty, staff, visitors, and applicants.

Reporting Incidents of Bias or Harassment - (213) 740-5086 or (213) 821-8298 usc-advocate.symplicity.com/care_report
Avenue to report incidents of bias, hate crimes, and microaggressions to the Office of Equity and Diversity | Title IX for appropriate investigation, supportive measures, and response.
Support and accommodations for students with disabilities. Services include assistance in providing readers/notetakers/interpreters, special accommodations for test taking needs, assistance with architectural barriers, assistive technology, and support for individual needs.

**USC Technology Support Links**
- Zoom information for students
- Blackboard help for students
- Software available to USC Campus

If you need resources to successfully participate in your classes, such as a laptop or internet hotspot, you may be eligible for the university’s equipment rental program. To apply, please [submit an application](#).