Bren 239: Advanced Climate Science for Policy Makers   Spring 2019 - v. 1.0

Professor:  David W. Lea; 1114 Webb Hall, Phone: 893-8665; lea@geol.ucsb.edu

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Office Hrs: Email David Lea for appointments.

Materials: Class website available at: https://gauchospace.ucsb.edu

**Announcements, updated readings, assignments and occasional online lecture quizzes will be posted on the website. Please consult the site regularly!**


The Discovery of Global Warming by Spencer Weart, Harvard University Press, 2003 (paperback 2004) – Also, see Weart’s website: http://www.aip.org/history/climate/


Annual Energy Outlook (online, US Department of Energy)

Meets: M, W 3:00-4:15, Bren 1510

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tr>
<td>April 1</td>
<td>Planetary Temperatures</td>
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<tr>
<td>April 8</td>
<td>Sources and sinks of Greenhouse Gases (April 8th: Workshop on CNI Carbon Offsets)</td>
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<td>April 15</td>
<td>Climate Forcing Agents and their Efficacy</td>
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<td>April 22</td>
<td>Climate Sensitivity and Feedbacks and Global Temperature Response</td>
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<td>April 29</td>
<td>Impacts: Sea and Land Ice</td>
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<td>May 6</td>
<td>Impacts: Ocean Acidification, Melting Ice and Sea Level Rise</td>
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<td>May 13</td>
<td>Impacts: Hydrological Cycle, Extreme Events and Tipping Points</td>
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<td>May 20</td>
<td>Global Temperature Limits and the Paris Agreement (2015)</td>
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<td>May 27</td>
<td>Prospects for Climate Mitigation</td>
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<td>June 3</td>
<td>In-class Presentations on Group Projects</td>
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<td>June 10</td>
<td>Finals Week - Take-Home Final Due</td>
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Grading will be based on Attendance/Class Participation, Assignments, in-class presentation, and the Take-Home Final.