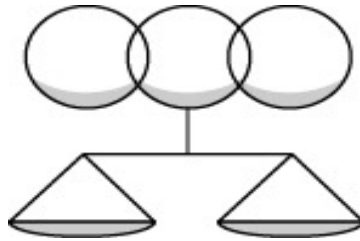


# GRUTER INSTITUTE

FOR  
LAW AND BEHAVIORAL RESEARCH



**The Major Transitions:  
Stages of Complexity, Cooperation, and Scale  
From Early Evolutionary Transitions to Modern Institutions**

Squaw Valley Conference

May 19-23, 2019

**Organizers:**

Monika Gruter Cheney, J.D.  
Gruter Institute for Law & Behavioral Research

Oliver Goodenough, J.D.  
Vermont Law School

Andrew Torrance, J.D., Ph.D.  
University of Kansas School of Law  
MIT Sloan School of Management

Isabel Behncke, Ph.D.  
Universidad del Desarrollo  
Oxford University

**With Support From  
ANN & GORDON GETTY**

PlumpJack Squaw Valley Inn, Olympic Valley, California

**Sunday, May 19th:** Afternoon: Arrival

**6:00** Reception and Dinner – Valley Room

**Monday, May 20th:**

Morning Chair: Monika Cheney

**7:30** Breakfast – Mountain Room

**8:30 - 9:00** Welcome/Opening Remarks

Monika Gruter Cheney, Oliver Goodenough, Andrew Torrance, Isabel Behncke

**9:00 - 9:45** The Major Transitions – A 25-Year Perspective  
Eörs Szathmary

**9:45 – 11:00** Reflections on the Major Transitions  
David Haig, Matt Ridley

**11:00 – 11:15** Break

**11:15 -12:30** Current Issues in Evolutionary Biology - State of Play  
Jonathan Chang, Michael Alfaro, Bobbi Low

**12:30 - 1:30** Lunch – Valley Room

Afternoon Chair: Lydia Hopper

**1:30 - 3:30** The Major Transitions: Extending the Insights -- Analogy, Homology, Direct Application

Opportunities Across Disciplines:  
Richard Webb, Isabel Behncke, Oliver Goodenough, Gordon Getty, Kevin McCabe,  
Bill Casebeer

**3:30** Hikes etc.

**6:30** Dinner – Valley Room

Keynote – Matt Ridley

**Tuesday, May 21st:**

Morning Chair: Susan Dudley

- 7:30            **Breakfast – Mountain Room**
- 8:30 – 9:15    **Genetics: Gene and Cell Heritability**  
Matt Ridley, Anula Jayasuriya
- 9:15 – 9:35    **Synthetic Biology & De-extinction**  
Andrew Torrance
- 9:35 – 10:45   **Primatology: Animal Society**  
Lydia Hopper, Isabel Behncke, David Haig
- 10:45 – 11:00   **Break**
- 11:00 – 12:30   **Language, Culture and Human Brain Capacity**  
Eörs Szathmáry, Bartlett Russell, Bill Casebeer, Bobbi Low
- 12:30 - 1:30    **Lunch – Valley Room**

Afternoon Chair: Andrew Torrance

- 1:30 – 3:15    **Economics and Institutions: Complexity, Cooperation & Scale**  
Kevin McCabe, Marshall Van Alstyne, Brian Mannix, Charles Taylor, Carl Simon, Gordon Getty
- 3:15 – 4:00    **Legal Institutions: Complexity, Cooperation & Scale**  
Susan Dudley, Gillian Hadfield
- 6:30            **Dinner – Valley Room (Includes Contests of Festivity)**

Wednesday, May 22nd:

Morning Chair: Bartlett Russell

7:30            **Breakfast**

Major Transitions All Around Us?

9:00-10:45    **Communication, Big Data, Platforms and AI**  
David Gilmour, Kelly Jo MacArthur, Katelyn Sills, Daniel Ryan, J.B. Ruhl

10:45 – 11:00   **Break**

11:00 – 12:15   **Futurism and Investment: Placing Your Bets**

Moderator: Monika Cheney

Speakers:

Fred Dotzler, John Chisholm, Joon Yun

12:15 – 1:15    **Lunch**

Afternoon Chair: David Gilmour

1:15 – 3:00     **Law, Ethics, Risk Perception and Design Responses**  
Pam Dixon, Dan Katz, Margaret Hagan, Siri Terjesen, Rebecca Purdom

3:00 -- 3:30    **Discussion**

6:30            **Dinner, followed by tasting surprise**

Thursday, May 23rd:

Morning Chair: Oliver Goodenough

7:30            **Breakfast – Mountain Room**

9:00 -- 10:30   **Discussion: Where Next with the Transitions Approach?**

10:30 – 11:00   **Gruter Institute Project Reports: Conference Debrief - What's Next?**  
Moderator: Monika Cheney, Oliver Goodenough

11:00           **Boxed Lunches and Departure**

## CONFERENCE PARTICIPANTS

**Michael Alfaro** – Professor, Department of Ecology and Evolutionary Biology, UCLA

**Mauricio Aspé-Sánchez** - Social neuroscience; Behavioural game theory; Endogenous institutions. Universidad del Desarrollo (Chile).

**Isabel Behncke** - Cognitive and Evolutionary Anthropology, Oxford University, Professor, Universidad del Desarrollo

**William Casebeer** - Director, The Innovation Laboratory at Beyond Conflict

**Jorge Castillo-Sepulveda** – Data Scientist, Z Data Lab; social complexity sciences & mathematical engineer

**Jonathan Chang** – Evolutionary Biology, UCLA

**Monika Gruter Cheney** - Executive Director, Gruter Institute for Law and Behavioral Research

**John Chisholm** -Serial software entrepreneur; Member, MIT Corporation (board of trustees).; Trustee, Santa Fe Institute; Author, *Unleash Your Inner Company*

**Pam Dixon** – President, World Privacy Forum

**Fred Dotzler** - Managing Director De Novo Ventures, Trustee Salk Institute and Santa Fe Institute

**Susan Dudley** – Director, The George Washington University Regulatory Studies Center

**Gordon Getty** – Economics and Business, San Francisco

**David Gilmour** - Managing Director, Blyth Capital Partners LLC

**Oliver Goodenough** – Professor, Vermont Law School

**Gillian Hadfield** – Professor, University of Toronto Faculty of Law and Rotman School of Management

**Margaret Hagan** - Professor, Stanford Law School

**David Haig** – Professor, Evolutionary Biology, Harvard University

**Lydia Hopper** - Lester E. Fisher Center for the Study & Conservation of Apes, Lincoln Park Zoo, Chicago

**Anula Jayasuriya** – Founder and Managing Director, EXXclaim Capital

**Dan Katz** – Professor, Illinois Tech - Chicago Kent College of Law

**Bobbi Low** – Professor, School of Natural Resources & Environment, University of Michigan

**Kelly Jo MacArthur** – VP, Legal - Digital Content, Amazon

**Brian Mannix** – Research Professor, The George Washington University Regulatory Studies Center

**Kevin McCabe** – Professor, Center for the Study of Neuroeconomics, George Mason University

**Gerry Ohrstrom**- Gruter Institute Board of Directors; Investor

**Rebecca Purdom** – Fellow with Peripheral Vision International

**Matt Ridley** – House of Lords, England; Biologist; Author

**J.B. Ruhl** – Professor, Vanderbilt Law School

**Bartlett Russell** – Program Manager, Defense Advanced Research Projects Agency

**Daniel Ryan** – Professor of Information, University of Toronto

**Katelyn Sills** – Entrepreneur, Law

**Carl Simon** - Mathematics, Economics, Public Policy, University of Michigan

**Eörs Szathmary** – Professor, Evolutionary Biology, Eötvös Loránd University

**Charles Taylor** - George Washington University

**Siri Terjesen** - Dean's Faculty Fellow in Entrepreneurship and Director, AU Ctr for Innovation Department of Management

**Andrew Torrance** – Professor, University of Kansas School of Law; Research Associate, Biodiversity Institute;

Visiting Scholar in Behavioral and Policy Sciences, MIT Sloan School of Management

**Marshall Van Alstyne** - Professor, Information Systems, MIT

**Richard Webb** - Director, New Technology at Plant Health Care plc

**Joon Yun** – Managing Partner, Palo Alto Investors