

THE SCIENCE OF EVOLUTION/ THE EVOLUTION OF SCIENCE

A symposium on the occasion of:

The 200th Anniversary of Darwin's Birth
The 150th Anniversary of *The Origin of Species*
The 20th Anniversary of the Beckman Institute at Caltech

Thursday, May 14, 2009

P R O G R A M

8:30 Coffee (Beckman Institute Courtyard)

M O R N I N G S E S S I O N

(Beckman Institute Auditorium)

Moderator: Mordechai Feingold, Professor of History, Caltech

9:00 Welcome

Barbara Wold, Director, Beckman Institute
Steve Mayo, Vice-Provost, Caltech

9:15 Harry Gray

Founding Director, Beckman Institute
Arnold O. Beckman Professor of Chemistry, Caltech
"The Story of the BI at Caltech"

9:30 Elliot Meyerowitz

George W. Beadle Professor and Chair of Biology, Caltech
"Evolutionary Biology at Caltech: the Past 110 Years"

10:15 Sharon Kingsland

Professor and Chair, History of Science, Johns Hopkins
"Darwinism Caltech-style: Frits Went's phytotron"

11:00 Eric Davidson

Norman Chandler Professor of Cell Biology, Caltech
"Some New Ways of Thinking About, and Working on, Evolution of the Body Plan"

11:45 Ute Deichmann

Director, Jacques Loeb Centre for the History and Philosophy of the Life Sciences,
Ben-Gurion University of the Negev
"‘Gemmules’ and ‘Elements’: On Darwin's and Mendel's Concepts
and Methods in Heredity"

12:30 Discussion

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12:45 Lunch

(everybody on their own)

AFTERNOON SESSION

(Beckman Institute Auditorium)

Moderator: Scott Fraser, Anna L. Rosen Professor of Biology, Caltech

2:00 John Grotzinger

Fletcher Jones Professor of Geology, Caltech

"Geologic and Environmental Context of the Early
Cambrian Radiation of Animals"

2:45 Jesse Bloom

Beckman Fellow in Biology, Caltech

"The Molecular Underpinnings of Virus Evolution"

3:30 Christoph Adami

Professor, Keck Graduate Institute of Applied Life Sciences

"The Free-for-All Effect: A Mechanism for a
Drastically Varying Rate of Evolution"

4:15 Frances Arnold

Dick and Barbara Dickinson Professor of Chemical Engineering and Biochemistry, Caltech

"On Beyond Nature: Protein Evolution in the Laboratory"

5:00 Discussion

EVENING SESSION

(Beckman Auditorium)

7:30

Moderator: Barbara Wold, Director, Beckman Institute
and Bren Professor of Molecular Biology, Caltech

Michael Ruse

Noted Author on Evolution

Lucyle T. Werkmeister Professor of Philosophy
and Director of the Program in the History and Philosophy of Science, Florida State University

"The Origin at 150: Is it past its Sell-by date?"

Peter and Rosemary Grant

Renowned Investigators of the Galapagos Finches

Ecology and Evolutionary Biology, Princeton University

"Darwin's Finches"