

The 1999 meeting of SIG Chaos and Complexity Theory at AERA

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Membership Meeting and Discussion (Chaos and Leadership in Educational Organizations)

Symposium: The Edge of Chaos: Implications for Teaching and Learning

Roundtables: Implications for Planned Learning

Symposium: Chaos/Complexity Theory, Hemeneutics, and Post-Modern Education--Implications

for Constructivist Teaching and Learning in Children, Youth and Adults

An unsystematic list of other sessions which might be of interest to SIG members

Monday Session

08.036:15-7:45 -- Hilton, St. Laurent, Banq Fl (SIG/Chaos and Complexity Theory-- Membership Meeting) Membership Meeting and Invited Discussion: Chaos and Leadership in Educational Organizations

Discussants: Rick Ginsberg, Colorado State University; Kathleen Martin, University of Washington, Bothell; Billie Blair, CSU, Dominguez

Tuesday Session 17.13

2:15-3:45--Hilton, Fundy, Banq Fl (SIG/Chaos and Complexity Theory--Symposium)

The Edge of Chaos: Implications for Teaching and Learning

Chair/Discussant: William E. Doll, Jr., Louisiana State University

Participants: The Edge of Chaos: Implications for Teaching and Learning. *Sherrie Reynolds, Texas Christian University; Barney Ricca*

Wednesday Session 30.02

3:05-3:45--Hilton, Fontaine B, Level F (SIG/Chaos and Complexity Theory--Roundtables)

Implications for Planned Learning

TABLE 5 Expect Unexpected! Elementary School Principals' Reaction towards Chaotic Events. Sadegul Akbaba, University of Cincinnati

TABLE 6 Structural Change to Science Education in a Critical, Post-Modern Way. Leslie Henrickson, UCLA

TABLE 7 Groucho, Escher, Bach: Gödel's Incompleteness Theorem and Its Implications for Planned Learning. *Herbert W. Hough, Buffalo Public Schools*

TABLE 8 Complexity of School Reform: Order and Chaos. *Roland Pourdavood, Cleveland State University*

TABLE 9 A "Conceptual Continuum" for Facilitating Complex Education: Teaching and Learning on the Edge of Chaos. *Dan Rea, Georgia Southern University*

Thursday 40.11

2:15-3:45--Hilton, Pointe aux Trembles, Banq Fl (SIG/Chaos and Complexity Theory--Symposium)

Chaos/Complexity Theory, Hemeneutics, and Post-Modern Education--Implications for Constructivist Teaching and Learning in Children, Youth and Adults

Chair: Karen VanderVen, University of Pittsburgh

Participants:

A Dynamic Themes Curriculum: Applications of Chaos/Complexity Theory to Designing Constructivist Instruction. *Doris Fromberg, Hofstra University*

Hermeneutics and Its Implications for Teaching and Learning in the Context of Child and Youth Development. *Michael J. Nakkula, Harvard University*

Hearts and Minds: A Dynamical Approach to Emotions and Patterns of Physiological Responsiveness in Teaching and Learning Situations. *Carlos Torre, Southeastern Connecticut State University*

Also of potential interest:

(suggested in the Spring 99 newsletter) **Tuesday** (15.19) **Interrupting Frameworks: Critical Inquiries in Geometrics of Epistemology and Curriculum** (Division B--Symposium) 12:25-1:55 pm--Queen Elizabeth, Peribonca, Conv Level

CHAIR: Brent Davis, York University

PARTICIPANTS:

Unstructuring Curriculum, Brent Davis, York University

Altering Egos, Sharon Todd, York University

Interpreting Identities, Dennis J. Sumara, York University

(suggested by Marc Cutright, who thought planning was a good placement for this one)19.64: Strategic Change (SIG/Strategic Change--Paper Presentation)TUESDAY AFTERNOON 4:05-5:35--Marriott, Maisonneuve C, 36th Fl

Chair: Mimi Wolverton, Washington State University

Participants:

The 21st Century Site-Level Resource Manager: Strategies for Successful Devolved Leadership.

Fergus O'Sullivan, Angela Thody, Elizabeth Wood, University of Lincolnshire and Humberside

School Change: What Happens When the Community is Forgotten. Catherine H. Glasscock, Ohio University

Planning in Higher Education: A Model from Chaos Theory. Marc Cutright, University of Tennessee, Knoxville

Trends in Higher Education Planning. Laurence R. Marcus, Thomas Gallia, Rowan University

(suggested by a search on "chaos")

42.24: Off the Beaten Path: Innovative Approaches to the Study of Motivation (SIG/Motivation in Education--Symposium)

THURSDAY AFTERNOON 4:05-6:05--Queen Elizabeth, Yamaska, Conv Level

Chair: Elizabeth De Groot, University of Michigan

Participants:

Predicting Children's Choice of Favorite and Best School Subjects: A Latent Growth Model.

Kwang

Suk Yoon, Jacquelynne S. Eccles, Kai U. Schnabel, University of Michigan

Future Goals, Plans and Instrumentality. Stephanie J. Brickman, Raymond B. Miller, University of Oklahoma

How Can We Raise Achievement? A Study of Motivational Factors in Three Countries. Julian Elliott, Neil Hufton, University of Sunderland, U.K.

A Chaotic Look at Students' Motivation: Exploring the Interface Between Chaos Theory and Goal Theory. Martin Dowson, University of Western Sydney; Tony Cuneen, St. Pius X College; Amanda Irwin, University of Western Sydney

"Adding Legs to a Snake": A Reanalysis of Motivation and the Pursuit of Happiness from a Zen Buddhist Perspective. Robert W. Gaskins, University of Kentucky

A Qualitative Look at Motivation: Motivating Instructional Practices From the Students' Perspective. Thierry Karsenti, Gilles Thibert, University of Quebec, Montreal

Discussant: Tamera Murdock, University of Missouri, Kansas City

(suggested by a search on "chaos")28.02: Educating Women and Girls in the Technostructure (SIG/Research on Women and Education--Roundtables)WEDNESDAY AFTERNOON 1:15-1:55--Hilton, Fontaine B, Level F

TABLE 5 Women Claiming Their Place in the Technostructure: A Discussion. Leslie Hall, University of New Mexico

TABLE 6 What You Find Is What You Get? Women and (Dis)information. Laura Brendon, Ohio State University

TABLE 7 Weaving Women into Mathematics and Computer Education. Suzanne Damarin, Ohio State University

TABLE 8 Chaos, Weaving, and the Space/Barrier: Women's Mathematics Life Stories. *Diana B. Erchick, Ohio State University, Newark*

TABLE 9 Becoming Visible: Re-Weaving His/Story. Marilyn E. Hegarty, Ohio State University

TABLE 10 Learning to Make a Difference: Girls, Tools, and Schools. Jennifer Jenson, Simon Fraser University

TABLE 11 The Low Participation of Women in Science and Technology: In Search of Answers. Tahany Gadalla, University of Toronto

(suggested by a search on complexity)

11.67: Complexity and Complex Systems: Emerging Cognitive, Learning, and Pedagogical Perspectives (SIG/Advanced Technologies for Learning; Division C--Symposium)TUESDAY MORNING 8:15-10:15--Sheraton, Salon 7, Level 3

Organizer:/CHAIR Michael J. Jacobson, University of Georgia

Participants:

Complex Systems, Cognition, and Problem-Solving: A Preliminary Investigation of Differences Between Novices and Experts. Michael J. Jacobson, University of Georgia

Why Students Fail to Learn Concepts of Complexity. Michelene T.H. Chi, Stephanie Siler, Ferrari Michel, University of Pittsburgh; Jim Slotta, UC, Berkeley

Learning Biology Through Constructing and Testing Computational Theories: An Object-Based Parallel Modeling Approach. Uri Wilensky, Ken Reisman, Tufts University

New Tools for Decentralized Thinking. Mitchel Resnick, MIT

Participatory Simulations: Network-Based Design for Systems Learning in Classrooms. Uri Wilensky, Tufts University; Walter Stroup, University of Texas, Austin