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CHAO

PSYCH

March-April-May 1993 NEWSLETTER Volume 1, Issue 3

**SOCIETY FOR CHAOS THEORY IN PSYCHOLOGY**

*and the social and life sciences*

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**ANNOUNCEMENT**

**August 16-19: Society for Chaos Theory in Psychology, 3rd Annual meeting.** Geneva Park Resort, Orillia, Ontario, Canada. Papers, panels, posters, and self-organizational discussion sessions. Dinner speakers include David Peat. Papers still accepted. Contact immediately: Fred Abraham, P.O.Box 53, Waterbury Center VT USA 05677, Tel. (802) 244-8104

The above is a prototype announcement for placement in journals, newsletters, and relevant societies. Please send a copy to your favorite organization or publication, except APA and APS which have already been notified. If you have not responded officially and plan to come, please phone Fred immediately, because we have to have our minimum block of rooms settled right away. Note that membership in the society is a prerequisite to participation, so add your dues to the \$50 conference fee and room deposit when

you sign up. Now there follows some information from a letter to participants about the conference details:

The Conference is at the YMCA Canada Geneva Park Conference Center on Lake Couchiching, Orillia, Ontario. It is ideal for family vacationing as well as conferencing, so you may wish to bring your family, and/or extend your visit.

(continued on next page)

**APA & APS News**

The March *Observer*, newsletter of the American Psychological Society (APS) carried an excellent article about our day long Preconvention Meeting preceding APS registration the opening day of their 4th Annual Conference in Chicago. The APS has become the leading American society for the research/academic component of the profession, and our workshop is featuring the experiential side of our society. The morning sessions are tutorials on the basics by Sally Goerner, Tom Gentry and Fred Abraham. The afternoon sessions feature research/theoretical applications in brain/ behavior, by George Mpitsos, behavioral psychology, by Peter Killeen, Clinical research by Gary Burlingame and by

(continued on page 5)

**CONTENTS**

Society Conference	1
APA/APS News	1
Conference Proceedings	2
Conference Topics	3
Companion Organizations	3
Literature	4
Journal Announcement	4
News	5
Calendar	6
Dues request	7
CHAOPSYC/CHAOPSYCH	8



3rd Annual Conference Details  
(continued from p 1)

We are the booking agent. That means you make your reservations with us, pay us, and we pay them. We have to have a firm commitment on a final minimum of rooms by mid-May, so we have asked for a May 1 deadline. After May 1, it may still be possible to attend the Conference, but we cannot guarantee the availability of rooms at the resort. They indicate their demand should not be too great so availability should be ok, but for our own peace of mind, we would appreciate your commitment now. The rates include three meals a day and two nutrition breaks. There is a shop for additional snacks, etc. Recreational activities include sailing, fishing, tennis, jogging, water-skiing, hiking, biking. Some of us are bringing our own canoes, bikes, and sailboats. Check in is 4pm, check-out noon.

The room rates per person at double occupancy (there are a double and single bed in all rooms) are Can\$84.18 per night. At current exchange rates of .81 x Can\$ = US\$, that becomes US\$68.19. Or for the three nights, Can\$253/US\$205. For single occupancy, add almost 50%. For children, add \$0 age 0-3, Can\$37.21 (US\$30.14) for age 4-7, \$49.41/40.02 for ages 8-12, \$60.39/48.92 for ages 13-17, per night. For those not lodging at the resort, there is a Can\$8 per day plus meals charge. Please send to Fred at our Vermont headquarters your checks, \$50 for the conference fee if you haven't yet paid that, and 40% of your estimated food/lodging bill. Add the US\$25

membership fee to the Society if you are not yet a paid member of the Society. Phone Fred immediately since it is getting late already.

**Transportation:** Limousine service for the 90 mile, hour and a half airport/Geneva Park trip is very reasonable. The rates (one-way) depend on the number traveling together in the Van. They vary from Can\$ 15-44 (US\$ 12-35), for 9-1 passengers, e.g., four passengers, a likely scenario, would be approx. Can\$20, US\$16 per person). Call 705 835-3650 (or for those in Ontario but not at an 835 exchange, you can use 800 461-7529). Ask for Linda. Their name is Simcoe County Airport Services. (137 Brock St., Barrie, Ont L4N 2M3, Canada .) Tell them you are with our Society.

Here are some APA advisories on border crossing in and out of Canada: For US citizens and residents, carry passport, birth certificate, or voters registration card or a 1551 or 1151 (Green Card). Other nationalities must have a valid passport and/or visitors visa from their local Canadian Embassy/Consulate or High Commission Office. Computers, recent cameras, videos, recorders, etc, register with U.S. or your country's Customs or have invoices (I usually make a list to facilitate their registration).

All participants this year should submit abstracts and titles as they wish them to appear in the program. Submit to Society at P.O. Box 53, Waterbury Center VT 05677 USA. Phone (802) 244-8104.

### CONFERENCE PROCEEDINGS

*Conference Proceedings* from this and the previous conferences of the society are to be published. The Editor-in-Chief for this volume is Robin Robertson. He wants manuscripts that you wish to have published in this volume submitted prior to the conference. These papers need not be limited to formal presentations, but may represent elaborations for those planning to participate more informally in the self-organizational sessions. For details, write Robin Robertson, P.O. Box 7226, Alhambra CA 91802 USA, phone/fax: (818) 458-1624, internet 0005699249@mcimail.com.



**Some of the topics submitted to our Geneva Park conference include:**

- Sulis (Canada): Emergent Computation in Complex Systems: A General Theory  
Sabelli (USA): Electropsychocardiography - An Empirical Application Of The Process Method  
Gyr (Switzerland): Psychophysics: The Self-Referent Holonomic/Observer-Observed Relation.  
Goertzel (USA): Self-Generating Systems: A New Paradigm Synthesizing Dynamical And Computational Approaches.  
Cooney (USA): Basins of Attraction and Individual Differences in Memory Function  
Kvitash (California): Cognitive Balascopy Tools for Dynamical Systems Theory in Psychology  
Hawkins (USA): Self-Referential Routes to "Chaos" Associated with Relationship Dissatisfaction: Theory and Treatment Implications  
Koehler (California): Self-Organization and Fractal Aggregation in the Medical Response to a Major Disaster  
Buettner (USA): Investor Psychology: Pattern and Progress in Mass Behavior  
Callahan (California): Energy and the 5 Minute Psychotherapeutic Bifurcation.  
Combs (Inner Consciousness): Chaos Views the History of Rational/Non Rational Discourse  
Wolinsky (USA): Quantum Consciousness  
Mosca (USA): Happiness, Good And Evil  
Goerner (USA): Deep Ecology  
Gentry (California): Mathematical, Physical, And Cognitive Fractal Geometry Meet

**Companion Organizations & Newsletters**

*The Social Dynamicist.* An excellent quarterly of 2-3 brief theoretical and research articles, usually entry level for easy reading, literature and conference pointers, membership list supplements with areas of interest so a good place to find other folk. Relevant to all social and psychological science. The bargain of the century, it is a must supplement for our membership, already a highly overlapping membership. \$8 annually. Published by Orion/Wellspring Conferencing, P.O. Box 9080, Seattle WA 98109

*The Chaos Network.* Similar in high quality and type of coverage, but more oriented toward those interested in organizational development. Also, highly recommended, but an order of magnitude more expensive at \$79; includes an e-mail conferencing system using MetaNet. Published by People Technologies, P.O. Box 4100, Urbana IL 61801.

*EEG/Chaos Newsletter.* Includes brief research and technical notes, computer algorithms, and letters. Published by Walter S. Pritchard, Bowman Tray Technical Center 611-12, R. J. Reynolds Tobacco Company, Winston-Salem, NC 27102.

*Chaos and Complexity in Psychology,* a group in the United Kingdom has contacted Larry Vandervert and Fred Abraham about their efforts to establish and society. I have responded about the possibility of merging to a single international organization (we already have membership from several European and Asian countries). Contact Roger Cross, 29 Carr Bank Lane, Nethergreen, Sheffield, S11 7FB, UK. Perhaps we will have enough correspondence to take this issue up at our business meeting in Orillia in August.



### Recent articles and books of interest:

- Abraham, F. (1993). (1992). Chaos Theory in Biopsychology. In *McGraw-Hill Yearbook of Science & Technology 1993*, pp 73-76. New York: McGraw-Hill.
- Abraham, R., McKenna, T., & Sheldrake, R. (1992). *Dialogues at the Edge of the West*. Sante Fe NM USA: Bear.
- Casti, J. L. (1992). *Reality Rules: I; Picturing the World in Mathematics--The Fundamentals*. NY: Wiley.
- Chialvo, D. R. & Apkarian A. V. (1993). Modulated Noisy Biological Dynamics: Three Examples. *Journal of Statistical Physics*, 70, 375-391.
- Cooney, J.B. & Conostas, M.A. (1993). On Determining the Dimension of Discontinuities in Human Learning and Development. In M.L. Howe & R. Pask (Eds.), *Emerging Themes in Cognitive Development I: Foundations*, pp 154-191. New York: Springer-Verlag.
- Goerner, S. (1993). *Chaos and the Evolving Ecological Universe: A Study in the Science and human Implications of a New World Hypothesis*. New York: Gordon & Breach
- Goertzel, B. (1993). *The Evolving Mind*. New York: Gordon & Breach.
- Goertzel, B. (1993). *The Structure of Intelligence*. New York: Springer-Verlag.
- Levine, R. L. & Fitzgerald, H. E. (1992). *Analysis of Dynamic Psychological Systems* (2 vols.). New York: Plenum.
- Neuringer, A. & Voss. C. (1993). *Approximating Chaotic Behavior*. *Psychological Science*, 4, 113-119.
- Redington, D. J. & Reidbord, S. P. (1992). Chaotic Dynamics in Autonomic Nervous System Activity of a Patient During a Psychotherapy Session. *Biological Psychiatry*, 31, 993-1007.
- Reidbord, S. P. & Redington, D. J. (1992). Psychophysiological Processes During Insight-Oriented Therapy: Further Investigations into Nonlinear Psychodynamics. *Journal of Nervous and Mental Diseases*, 180, 649-657. (Also in Science News, 143, 129-144; cover picture of their 3D trajectory in color!).
- Pritchard, W. S. & Duke, D. W. (1992 or in press). Measuring Chaos in the Brain: A Tutorial Review of Nonlinear Dynamical EEG Analysis. *International Journal of Neuroscience*.
- Thelen, E. (1992). Development as a Dynamic System. *Current Directions in Psychological Science*, 1, 189-193.
- Townsend, J. T. (1992). Chaos Theory: A brief Tutorial and Discussion. In A. F. Healy, S. M. Kosslyn, & R. M. Shiffrin (Eds.), *From Learning Theory to Connectionist Theory: Essays in Honor of William K. Estes* (Vol. 1, pp 65-96). Hillsdale NJ USA: Erlbaum.

Call for Papers: **PSYCHOSCIENCE** is a peer reviewed journal dedicated to the development of basic psychoscience for the advancement of scientific clinical practice. The first issue is scheduled for early 1994. The theme of this issue will be "**Chaos, Information Theory, and the Psyche**". Papers dealing with applications of chaos and/or information theory to the study of the psyche will be considered. Other papers consistent with the mission of the journal will also be considered. Papers must present original contributions to the theory of psychoscience or the relation of such theory to clinical practice. Papers should be written in the format of *Journal of Nervous and Mental Disease* and submitted in triplicate, along with a statement that the paper has not been published and is not under consideration elsewhere, to Mark Germine, Managing Editor, P.O. Box 7176, Loma Linda CA 92354 USA. Our membership is encouraged to submit papers.



## APA/APS NEWS (continued)

Hector Sabelli's group which includes Linnea Carlson-Sabelli and Minu Patel, and organizational psychology by Stephen Guastello, one of the first to do catastrophe research in psychology. In addition to this day long session, there is a debate in the APS program entitled: *Chaos Theory: Secret Sect for Mathematical Mystics versus Popular Multidisciplinary Metamodeling Paradigm*, with George Mpitsos on modeling brain/behavior dynamics, Peter Killeen on The Mechanics of Behavior, and Gary Burlingame on Deterministic Chaos in Quality of Verbal Interactions in Group Psychotherapy, all taking the winning side of the debate, and moderator Fred Abraham taking the losing side, whichever that might be.

The January *Monitor*, newsletter of the American Psychological Association (APA) carried a front page article on chaos, and there have been some letters in the subsequent issues. You are all encouraged write follow-up letters to keep the issues forefront, and to help sophisticate the discussion. The article was the result of a series of interviews with Larry Vandervert, Michael Bütz,

Bill McCown, and Linda Chamberlain. It has generated much enthusiasm in APA and netted our Society many new members. We owe them a debt of gratitude.

As last year, there are several chaos events at the APA convention in Toronto which is sequent to ours in August. I got notices giving me participation times for events I had forgotten I was participating in. Sally Goerner has organized a Preconference Workshop, called *Chaos: Methods and Theory for Psychologists*, which actually commences the morning of our last conference day (we run till noon that day). Those participating include Allan Combs, Tom Gentry, Reidborg, Redington, Hector Sabelli, and when he gets there in the afternoon after our conference, Fred. Sally also has a Div 24 symposium on the APA program entitled *Chaos theory across the spectrum of psychology's discourses*, involving some of the same folk I think. Bill McCown, Michael Bütz, and Linda Chamberlain are again doing a Div. 43 panel on family therapy. Larry Vandervert is giving a Div 24 invited address on *Neurological Positivism*. If there are others, please bring them to our attention.

## NEWS

Nominations for President-Elect are now being solicited, for the President to succeed Sally Goerner.

Volunteers and nominations are needed for various positions as this fledgling organization tries to get its infrastructure in place. We need an individual who is computer-philic to take over Robin's task of managing the membership lists and mailing. He has the process established now. We also need someone to succeed Dorothy as Treasurer. Both jobs could be done by one person or a pair of individuals who have excellent communication. Robin has set the lists up on *Access* or *File Express* which can be learned readily.

Our California State University, Stanislaus contingent is having another teleconference in June (see Calendar). They had one, *Fractal Dimensions in Chaos Science*, February 11th, presented by the National University Teleconference Network (NUTS) and their University. They also have The CSUS Cognitive Studies Program (Lin Meyers: lin@altair.csustan.edu), the Center for Telecommunications Courses (Tom Gentry: gentry@ceti.csustan.edu), and the Fractal Factory Project (John Saraillé: john@ishi.csustan.edu).

(continued on p 7)



## CALENDAR

May 6-9. **Chaos & Community**, 11th Scientific Meeting of the A.K. Rice Institute. Marina del Rey CA. Contact Nancy Angelo, 1350 Morningside Way, Venice CA 90291.

April 22. **Western Psychological Association & Rocky Mountain Association**. Phoenix. Papers and panels by Bütz and Chamberlain.

June 15-16 Teleconference on **Fractal Dimensions in Chaos Science**. Washington. Contact John Saraillé, (209) 667-3185.

June 27-July 1. **World Future Society** 7th General Assembly. Washington DC. Fax (301) 951-0394.

June 25-28. **American Psychological Society** 4th Annual. Chicago. Several Chaos events: see APA/APS News article, p 1.

July 19-23. **International System Dynamics** Society Conference. Cancun. Phone/fax 525 326-5555 ext. 3325.

August 9-14. **Analysis of Dynamic and Cognitive Systems**. Göteborg. Contact S.I. Anderson, Chalmers Science Park, S-142 88, Göteborg Sweden, Fax 011 4631 827421 or 4632 772 4240. 011 from the US.

August 15-21 **The Confluence of Matter & Spirit in Psyche & Nature: Archetypal Fields, Order & Form**. Assisi. Phone Michael Conforti, (802) 254-9064.

August 16-19. **Society for Chaos Theory in Psychology** 3rd Annual. David Peat invited dinner speaker. YMCA Canada Geneva Park Resort, Orillia, Lake Couchiching, Ontario, Canada. See announcement and article this newsletter, p 1.

August 19-24. **American Psychological Association** 101st Annual. Toronto. Several Chaos events: see APA/APS News article, p 1.

September 14-16. **Chaos Network Conference** 3rd Annual. Minneapolis. Contact People Technologies, P.O. Box 4100, Urbana IL 68101

October 8-10. **Elliott Wave International** Annual Conference. Gainesville GA. Contact Michael Buettner, 1-800-336-1818.

December 2-5. **INNS Conference on Neural Networks and Chaos**. Vail. Organized by Walter Freeman (Berkeley) and Shun-ichi Amari (Tokyo)



**NEWS (continued)**

Irma Alm, from her interests in avoidance of air traffic and other technological/human/control accidents, writes, from Sweden (via our e-mail Chaopsyc service):

"This question as brought me to a more or less philosophical journey concerning our views on humans, the organization of cognition, and human learning ability. It seems that there exist two pathways along which we may increase our understanding of the human cognition. The fixed path and the learning path. These two cannot be studied separately, because the fixed path determines to a large degree the learning path. To understand how the human cognition is organized, I've been referring to Maturana (1980) and to Vandervert (1992). I'm discussing the implications of these thereoetical viewpoints on learning and interaction. These implications are suggesting

that human errors emerging from the interaction between humans and technology are non-avoidable. Such errors seem to be the prerequisites for both cognitive development and technological progress." I would respond that I too have long maintained that such dynamical behavior which is often considered bad by society, specifically, hyperactivity in children, also be considered as part of a useful (beneficial) dynamical process. The focus for a cure on HIV high evolution rates shows viral benign/fatal considerations are parts of a normal dynamical process. It also is at the center of Frank Mosca's chaos views of good vs evil and happiness; many mystical traditions often deny these distinctions, or revel in their paradox. Goertzel's and Goerner's books (see article on references) also discuss natural evolution and its relationship to psychology, and I have an unpublished ms that is a sequel to Vandervert's *Neurological Positivism*.

*DUES NOTICE*

**Dorothy Gampel, Treasurer**

1993 Dues are now overdue. Membership is \$25 regular, \$10 student/retired/limited income. Add late fee of \$5. This is the final mailing going to our entire mailing list; future mailings (with occassional exception) will be just to the paid membership.

Name: _____	e-mail: _____
Address: _____ _____ _____	Other information about your interest in the Society is welcome here: _____ _____
Affiliation: _____	
Tel: _____	Mail this form and your check to: Society for Chaos Theory in Psychology P.O. Box 383145 CAMBRIDGE MA 02238-3145
Fax: _____	



## *CHAOPSYC & CHAOPSYCH*

To join the Society's electronic listservice (messages sent to the server are forwarded to all subscribers; this free service is on bitnet, internet, and via other e-mail sources accessing them). To subscribe, send a message to [listserv@uvmvm.uvm.edu](mailto:listserv@uvmvm.uvm.edu). The message should be: **subscribe chaopsyc your name**. You will receive an acknowledgment message, and then all messages you send to [chaopsyc@uvmvm.uvm.edu](mailto:chaopsyc@uvmvm.uvm.edu) will be distributed to all on the list, and you will receive all messages sent in to **chaopsyc**. Those with inquiries on how to be able to join MCI as an access route, which a few of our members have done, contact Sally Goerner, 374 Wesley Court, Chapel Hill, NC 27516, (919) 932-5547, fax 932-5587.

All members are solicited for items for the both the hard copy *CHAOPSYCH* newsletter, including abstracts of work, calendar items, bibliographic information, news, and the electronic *CHAOPSYC* listserv.

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