



Society for Chaos Theory  
In Psychology and the Life Sciences  
P.O. Box 7226 • Alhambra, CA • 91802

September-November 1993 NEWSLETTER Volume 1, Issue 4

### DUES

The Society's dues of \$25 (\$10 for students and limited income) runs from conference to conference. If you did not pay dues at the conference or in the previous 3 months, your dues are due again. The Society is expanding this year and needs all the funds it can get to support this effort. What can we say? This year's dues will help spread chaos as far as we can figure out how. (Note that the \$50 conference fee is not a replacement for dues.)

### REPORT FROM ORILLIA

As we have a great deal to cover in this issue, this report will be brief. This year's conference, set in the woods by a beautiful lake, allowed a type of informality that was not present in the previous meetings. Eating together on site and being able to walk, jog or swim together in beautiful surroundings helped people establish a sense of community. Talks were presented in a single room, to the whole group and often with a number of people from similar topic areas presenting together. For example, Jay Cooney, Jay Allen and Keith Clayton presented jointly on topics related to learning and memory and Ray Hawkins, Gary Burlingame, Robin Robertson, Frank Mosca, Steve Francis, David Brower and Jerry Masters presented together on clinical applications. Thus, no one person or topic area got greater attention than another and we all learned that – just as advertised – there really is a deep commonality across areas. This greater informality and greater

concentration seemed to increase the quality of contacts, the quantity of information exchanged and participant satisfaction. I think we all owe Fred Abraham a round of applause for a job well done.

### BIRTH OF AN INFRASTRUCTURE

Another result of the conference and the increased sense of community is a burgeoning Society infrastructure. A new set of bylaws were discussed, amended and adopted (these are given on page 7). Our relationship with APA was discussed and a decision made to use both APA and APS as equal parent organizations. We will not make formal ties to either but will alternate which group we schedule our conference before. Since we followed APA this year, next year we will be outside **Washington DC, June 24-27** just before the APS meeting.

Sally Goerner took up the reigns of the presidency and Katherine Robertson began as Secretary-Treasurer. (Many thanks to our outgoing President, Fred Abraham, and Treasurer, Dorothy Gampel.)

As per the new bylaws, we will elect a new president-elect by mail-in ballot. Five people were nominated for this position and short statements from each are given starting on page 4.

We also now have a number of active committees and several projects as listed below:

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## COMMITTEES

**Publications Committee:** Robin Robertson, Chair. Robin is editing a volume of *Proceedings* and is already negotiating with a publisher. His group will also be continuing the effort to establish a journal (Larry Vandervert and Tom Masters took some initial steps in this direction two years ago).

**Program Committee:** Ray Hawkins, Program Chair; Katherine Robertson, Facilities Organizer; This committee will organize next year's meeting. Katherine will handle finding a location and arranging facilities. We will be looking for another informal site like the one at Orillia, but this time outside of Washington. Ray will help organize the program at the meeting. A number of people have agreed to help review and organize papers from different focus areas with an aim to helping connect people with similar interests.

**Publicity Committee:** Bob Kahn, Chair; One of this year's major focuses is to increase the Society's visibility. Bob and Holly Arrow will be placing ads for Society membership and calls for papers in journals and newsletters in a wide range of interest areas. They are also contemplating a host of other publicity activities such as sending flyers to university departments.

**NOTE:** Please send the names and addresses of any journals/newsletters that you think might be a good place to put ads. Any specialty publications you get

would be likely candidates. Bob's address is on the next page.

**On-line Communications Committee:** Joel Henkel, Chair; This committee will be maintaining the chaopsc bulletin board and trying to increase member participation in email. They will also be looking into establishing a reference database on-line and an electronic journal.

**Research and Grants Committee:** Tom Gentry, Chair; This committee will be exploring avenues for funding for the Society and its members.

**Nominations and Elections Committee:** Carlos Torre, Chair; As per the bylaws we will be soliciting nominations for next year's president-elect and having another election by ballot. This committee will handle this process for 1994.

## PROJECTS

The following projects are underway:

*Journal  
Publicity  
On-line Reference Database  
On-line Journal  
Grants Research*

Please contact the appropriate committee chair if you are interested in helping with one or more of them. Robertson, Hawkins, & Kahn's addresses are on the next page. Gentry is gentry@ceti.csustan.edu; Henkel is 617-623-1131; Torre is 203-498-7070.

## Workshop on Methods

To help answer the need for EDUCATION we will provide a two-day workshop on nonlinear methods after the annual meeting in Washington DC **June 28-29**. The workshop will have introductory and advanced segments as described below: (Note: you can take either one or both segments.)

### **Introductory Segment: Chaos, Attractors and Fractal Dimension Analysis**

Dr. Allan Combs and Dr. Tom Gentry — Two three-hour morning sessions (9am-12pm).

Basic concepts (for example, phase space, fractals, Lyapunov exponents)  
Attractor Construction and Reconstruction Techniques  
Distinguishing Chaos from Noise  
Calculation and Applications of Fractal Dimension Analysis

### **Advanced Segment: Complex Systems Theory and Methods**

Dr. William Sulis — Two three-hour afternoon sessions (1:30pm-4:30pm).

Introduction to Complex Systems including complexity, edge of chaos, adaptation, evolution, and emergence.  
Complex Systems Methods including cellular automata, Boolean automata, artificial life, and genetic algorithms  
Introduction to Ergodic Theory and Statistical Mechanics and their applications to human science research  
including critical exponents, scaling, spectra, order parameters, phase transitions, entropy, ergodicity.

Cost will be \$100 per segment. Please let us know of your interest early so we can plan. Contact: Dr. Sally Goerner, 374 Wesley Court, Chapel Hill, NC 27516, 919-932-5587, email: goerner@gibbs.oit.unc.edu

## Interest Area Contacts

To increase networking among Society members we have also created a list of contact people in various interest areas. You can use these people to begin networking with others in your area. If your area is not listed and you are willing to be a contact person, please send your name to Dr. Sally Goerner, 374 Wesley Court, Chapel Hill, NC 27516 (919-932-5547), email: [goerner@gibbs.oit.unc.edu](mailto:goerner@gibbs.oit.unc.edu).

### Anthropology and Sociology:

Patrick Baker  
Department of Sociology and Anthropology  
Mt. Allison University  
Sackville, N.B. EOA 3CO, Canada  
506-364-2202 (W) 506-536-1474 (H)  
Email: [pbaker@mta.ca](mailto:pbaker@mta.ca)

### Art/Art History:

Tobi Zausner  
137 East 38th St, 6J  
New York, NY 10016  
212-686-5272 (Fax 212-686-1396)

### Clinical Theory/Practice:

Ray Hawkins  
Austin Mental Health  
1600 W. 38th St. Suite 404  
Austin, TX 78731  
512-459-4101 (W) 512-477-7877 (H)

### Clinical Research:

Gary Burlingame  
Comprehensive Clinic  
Brigham Young University  
Provo, Utah 84602  
801-378-7759 or 4050 (W)  
Email: [burlinga@tlrb.byu.edu](mailto:burlinga@tlrb.byu.edu)

### Economics:

Stephen Guastello  
P.O. Box 92305  
Milwaukee, WI 53233  
414-288-7218 (H)  
Email: [6155guastell@vms.csd.mu.edu](mailto:6155guastell@vms.csd.mu.edu)

### Family Systems

Bill McCown  
Nathan Kline Institute, Building 37  
140 Old Orangeburg Road  
Orangeburg, NY 10962-2210  
914-365-2000 (W) 215-885-4666 (H)  
Email: [mccown@nki.bitnet](mailto:mccown@nki.bitnet)

### History/Philosophy:

Lillian Greeley  
4 University Rd.  
Cambridge, MA 02138  
617-576-2034 (H)

### Jungian Psychology

Robin Robertson  
P.O. Box 7226  
Alhambra, CA 91802  
818-281-3601 (H)  
Email: [0005699249@mcimail.com](mailto:0005699249@mcimail.com)

### Learning Theory and Research:

Jay Cooney  
Educational Psychology  
University of Northern Colorado  
Greeley, CO 80639  
303-351-1642 (W) 303-351-2312 (Fax)  
Email: [jcooney@dijkstra.univnorthco.edu](mailto:jcooney@dijkstra.univnorthco.edu)

### Language and Literature:

Bob Kahn  
Center for Graduate Studies in Language and Literature  
P.O. Box 090603  
University of Missouri at Kansas City  
Kansas City, MO 64109  
816-471-7123 (H) 816-235-2477 (W)  
Email: [rkahn@vax1.umkc.edu](mailto:rkahn@vax1.umkc.edu)

### Memory and Perception:

Keith Clayton  
315 Wilson Hall  
Vanderbilt University  
Nashville, TN 37240  
Email: [clayton@macpost.vanderbilt.edu](mailto:clayton@macpost.vanderbilt.edu)

### Neural Nets:

Bill Sulis  
Department of Psychiatry and Psychology  
McMaster University  
Hamilton, Ontario  
Canada  
416-772-7212 (H)  
Email: [psych@mcmaster.ca](mailto:psych@mcmaster.ca)

### Organizational Psychology:

Jeff Goldstein  
Adelphi University  
29 Hayes Rd.  
Amity Harbor, NY 11701  
516-789-4145  
Email: [Goldstein@adlibv.adelphi.edu](mailto:Goldstein@adlibv.adelphi.edu)

### Physiology/Neurophysiology:

Wally Pritchard  
RJR Tobacco Company  
BGTC 611 R&D  
Winston-Salem, NC 27102  
Phone/fax: 919-741-4682  
Email: [wally@rjrt.com](mailto:wally@rjrt.com)

### Psychiatry

Hector Sabelli  
2400 North Lakeview Avenue #2802  
Chicago, IL 60614  
312-942-0118 (W) 312-348-5679 (H)

## ELECTIONS

As per the newly adopted bylaws, we will be electing the president-elect by ballot of the membership. Five candidates were nominated at the conference and each has submitted a short statement (see below) on who they are and what they would do for the Society. Please read these and return your vote on the ballot at the back of the newsletter. Votes will be counted on November 15th, so reply soon. The new president-elect will be announced in the December issue of the Newsletter. (Note: Order of candidate statements was done by random selection.)

### Jeffrey Goldstein, Ph.D.

I currently teach organizational psychology at Adelphi University but have also taught at Rutgers, Temple, NYU, and Columbia. I was first turned-on to nonlinear and nonequilibrium systems theories about ten years ago through the writings of Prigogine. I'm now at the point where I find it difficult to even read any articles that still follow old linear or equilibrium-based presuppositions. I am interested in re-wording various aspects of psychological theory (Lewin's force-field, Freud's regulatory principles, organizational dynamics) in the light of the new approaches with which the Society is concerned. Twenty of my published articles deal with this theme and my book on a nonlinear and far-from-equilibrium approach to organizational change will be coming out in the fall, 1993. I am also a member of Chaos in Praxis and the Chaos Network. In addition to my teaching and research, I am a consultant to businesses and institutions in the areas of organizational change, leadership development, and productivity improvement.

As president of the Society, I would want to further

encourage what I have truly appreciated about the Society and believe is one of its greatest strengths: acting as a forum for inclusiveness whereby experimentalists and clinicians, empiricists and theorists, psychologists and mathematicians, physicists and physicians, nonlinear dynamicists and far-from-equilibriumists can exchange their latest research and insights in an open and cross-disciplinary fashion. I would try to establish more regional conferences in addition to the annual one and would also try to plan conferences that bring together related academic and professional associations, depending, of course, on what the membership desires. Another possibility would be international conferences, perhaps every other year. I would continue to forge ahead with the Society's own journal and expand the newsletter to include more member contributions, book reviews, reports on recent research, and so on. I have greatly enjoyed the openness and informality of the conferences but I also feel the need for some more structure. I believe an appropriate, on-going, self-organizing task for the membership is how to integrate order and flexibility, structure and spontaneity – the very paradoxical qualities that help make chaos so intriguing.

### Walter (Wally) S. Pritchard, Ph.D

As president, my primary goals would be to maintain the broad, eclectic nature of the society while trying to bring a higher degree of formal organization. I see this as a natural transition for the society -- after charging out and conquering under Ghengis (aka Fred), I see a logical next step being a more structured mode under a Kubalai (wandering Marco Polos would continue to be welcome!).

In particular, I think that the conference could be more structured with no loss of ideational exchange. In particular, the agenda for the conference should

## EMAIL HELP

If you've got a modem and a computer, you can receive free information via our CHAOPSYC electronic bulletin board. Learn from others about the field, ask chaos theory questions of 170 fellow subscribers, and get feedback on ideas you present to the net. You can access CHAOPSYC from bitnet, internet, MCImail and other electronic mail services. To join send a message to [listserv@uvmvm.uvm.edu](mailto:listserv@uvmvm.uvm.edu). The message should read: **subscribe chaopsyc your name**.

If you are not yet on email we recommend MCImail which is a short distance call from most places in the US and costs only \$35 a year plus a small charge for messages sent. To join call 1-800-444-MAIL. If you need further help, call the Society's contact person: Bill Long, 25873 Line Road, Denton, MD 21629. Phone: 410-479-2631 or 221-2451. His email address is [:0005939365@mcimail.com](mailto:0005939365@mcimail.com).

be set beforehand, so that all the time can be devoted to presentations, discussion panels, etc. Another thing that I think would be a good idea is for the outgoing president to make a formal presidential address that would be published in the newsletter. I would also like to begin working to start a journal.

#### **Carlos A. Torre, Ph.D**

Fragmentation and reductionism have spread a subtle devastating poison through the academic, professional, and even family bloodstreams of our society. As important and useful as such paradigms have been in the advancement of science and technology, over-reverence to them has led to an unprecedented degree of narrowing of academic and scientific disciplines. This, in turn, has determined how we educate, structure our economic systems, and approach problems in our rapidly changing, often turbulent, world. By fragmenting and reducing our world to tiny isolated chunks, we have rendered it difficult if not impossible to understand.

Since my doctoral work at Harvard University in 1978, I have focused on the development of models that redress fragmentary approaches to education. In an effort to study more natural learning and problem solving processes, I developed a triadic theory of mental functioning that is congruent with chaotic dynamics and fractal geometry. This triadic theory proposes that mental life entails a constant and inseparable flow of interactions among various functions (thinking, problem solving, etc.) is inherently chaotic producing a combination of order and randomness in all that we know, feel and do. As a professor at Northeastern Illinois University, a Visiting professor at the University of Puerto Rico, and as a Dean at Yale University, I've developed and administered several programs based on the triadic theory. These programs utilize capabilities so as to better allow them to integrate disjointed knowledge and apparent paradoxes in their various fields of endeavor.

In my judgment, the Society is the ideal organization to practice the nonlinear dynamics that it preaches. By its very nature, the work of the Society warns against the limitations of linear models of human phenomenon and the constraining forms such models can foster. The present and previous leadership of the Society has initiated a "practice what you preach" approach to organizational development by sanctioning a supportive

environment that helps integrate rather than fragment the diverse perspectives that stem from the Society's interdisciplinary focus. I am interested in nurturing these strengths of the Society as well as in expanding the number and kinds of avenues through which they can thrive. In addition to establishing an interdisciplinary journal, further developing our existing newsletter, and firming up the computer network, I propose that the Society evolve a consulting network and a mentorship program. A consulting network would help the Society use the energies and talents of its members to help address issues of national and local concern such as education, the environment, inter-group conflict, etc.. It could facilitate the development of small- and large-group projects concerned with emerging issues. A mentorship program help initiate young scholars into the field as well as support professional-development among members through retreats, the newsletter, and member-to-member support to prevent burn-out. These activities would further advance the Society toward its commitment to promote growth and development of individuals applying nonlinear concepts outside of physics and mathematics.

#### **Stephen J. Guastello, Ph.D.**

Unique organizations require unique forms of leadership (management, central processing) that should reflect the organization's values, culture, and desired future directions. The Orillia conference showed that the Society's primary concern is to develop and maintain a variety of quality linkages among members and with other study groups who are interested in similar subjects. The Society will also be coming to grips with its relationship to centralist professional organizations and seems to require, once again, a variety of linkages to several such organizations. The impending growth of the Society would, I believe, be best served by a structure where the Members in Charge of Things act as a central hub of activity rather than as a hierarchical tree. The Society leadership is Everyone.

Stephen J. Guastello is currently Associate Professor of Industrial Psychology and Human Factors Engineering at Marquette University, Milwaukee, WI, where he has taught since 1983. He received the Ph.D. degree in Industrial and Organizational Psychology from the Illinois Institute of Technology, the MA degree in the same subject from Washington University, and the BA in Psychology from The

Johns Hopkins University. He has served as a consultant to industry, unions, and governmental organizations. Stephen has authored over 50 journal articles and book chapters. His published work on nonlinear dynamics (catastrophe theory applications in psychology, research methods) dates back to 1981.

**Michael R. Butz, Ph.D.**

I have been involved with Chaos Theory's integration with psychology since 1990 with my first presentation at the Chaos and Psychology Conference in Springfield, Massachusetts. Subsequently I presented a second time on Chaos Theory at the American Psychological Association National Convention that same summer with Larry Vandervert. Having published a number of papers and having made presentations from that early period in Chaos Theory's integration into psychology, as well as knowing several of the founding members, I believe I have a clear vision of

what it is that is required for Chaos Theory's continued integration into psychology, as well as its sister social science disciplines.

My approach has been, and will continue to be, to bring the general concepts of Chaos Theory to the widest audience possible within these disciplines and indicating as clearly as possible what its relevance is as a new paradigm. In practical terms this would mean "greasing the wheels" with book publishers or society members and encouraging the APA as well as the APS and other central organizations to sponsor symposia and paper presentations for society members. Of course lastly, to make our annual and local society gatherings as vital and open as possible where both clinicians and academicians are able to discuss their interests with one another in an open, friendly environment.

## Calendar

- Oct 3-6 *Origins: Brain & Self Organization, Second Appalachian Conference on Behavioral Neurodynamics*, Karl Pribram's B.R.A.I.N. Center, Radford University, Radford VA, call 703-831-5108 for reservations
- Oct. 9 *Frontier Science in EEG Symposium: Continuous Waveform Analysis*. New Orleans, Univ. Pittsburgh & American EEG Society, Diana Vincent 414-647-5342 [dvi@med.pitt.edu](mailto:dvi@med.pitt.edu)
- Oct 8-10 *Elliot Wave International Conference*, Gainesville GA, Michael Buettner, 800-336-1818.
- Nov 6 *Waves of the Future: Nonlinear Dynamics in Optical Images* (cascades of cellular changes using fluoroprobes and optical imaging), Satellite Symposium to Society for Neuroscience, Washington DC, A. Cornell-Bell, Dept. of Cell Biol., SHM C237, 333 Cedar St., New Haven CT 06510, 203-785-3129
- Nov 6-7 *Neural Networks: A New Biotechnology from Neuroscience*, Satellite Symposium to Society for Neuroscience, D. Alkon, International Neural Network Society, Ste 300 24th St. NW, Washington DC, 20037, 202-466-4667.
- Dec. 2-5 *INNS Conference on Neural Networks and Chaos*, Vail, CO Walter Freeman [wfreeman@garnet.berkeley.edu](mailto:wfreeman@garnet.berkeley.edu).
- Jan 29 *Washington Evolutionary Systems Society's Second Annual Conference on Interdisciplinary Systems*, Washington DC, Jerry Chandler, [chandler@casa.ninds.nih.gov](mailto:chandler@casa.ninds.nih.gov), or 301-496-1846
- Feb 19-20 *Society for Chaos Theory in Psychology and the Life Sciences, Northeast Regional Meeting*, Dates not final. Contact Derek Paar, Department of Psychology, Springfield College, Springfield, MA, (413-567-1889-home).
- Feb 10-12 *Pan Pacific Conference on Brain Electric Topography*, Sydney Australia, Fax +61-2-635-7734, Tel. +61-2-633-6688, [pan@brain.physics.swin.oz.au](mailto:pan@brain.physics.swin.oz.au)

# BYLAWS

## The Society for Chaos Theory in Psychology and the Life Sciences

### Article I - Name and Purpose

1. The name of this organization shall be The Society for Chaos Theory in Psychology and the Life Sciences.
2. The Society shall concern itself with the general scientific and professional problems in psychology from the standpoint of nonlinear dynamical systems theory. The Society's interests and commitments shall include but not be limited to: 1) the integration of data and theory across specialty boundaries; 2) the relationship between psychology and other areas of human knowledge, particularly regarding ecological matters and other important human concerns; and 3) the historical, systematic, and methodological aspects of psychology as a whole.
3. To promote the above, the Society shall initiate and encourage constructive interaction and integrative efforts.

### Article II - Membership

1. The Society shall consist of a single class of membership.
2. Members must have an interest in the concerns of the Society as stated in Article I, Section 2, and meet the minimum standards as stated in Article I, Section 2.
3. New Members: Those persons who have requested membership and who meet the above criteria shall be made members upon receipt of the yearly dues. The Secretary-Treasurer of the Society shall notify new members of their acceptance.
4. Except when otherwise specified in these bylaws, all decisions on matters calling for action by the membership of the Society shall be by majority vote of the members voting at the annual Society Business Meeting, or in the absence of a quorum, by mail ballot of the voting members. Voting by proxy shall not be allowed.

### Article III - Officers

1. The officers of the organization shall be a Society President, a Society President-Elect, a Society Past-President, and a Secretary-Treasurer.
2. The President-Elect shall be chosen by vote of the members of the Society. The Secretary-Treasurer shall be appointed by the Executive Committee.
3. It shall be the duty of the President to preside at all meetings of the Society; to be Chair of the Executive Committee and to exercise supervision over the affairs of the Society with the approval of the Executive Committee; to serve ex-officio as a member of the Nominations and Elections, Program and Publications Committees; and to perform such other duties as are incident to his or her office or as may properly be required of him or her by vote of the Executive Committee. (See also Article IV-2.)
4. It shall be the duty of the Secretary-Treasurer to issue calls and notices of meetings; to receive and transmit applications for Society membership; to keep records of the Society; to have custody of all funds and property of the Society; to collect any special dues that may be voted in accordance with Article VII, Section 1, of these bylaws; to make disbursements as authorized by the Executive Committee; to serve as Secretary and member of the Nominations and Elections and Program Committees; and in the name of the Chair of the Nominations and Elections, to issue calls for nominations of officers and members-at-large of the Executive committee, or to arrange with the Executive Committee for the issuing of such announcements.
5. It shall be the duty of the Society President-Elect to serve as a member of the Executive Committee of the Society and to perform the duties of the Society President in the event of the absence or incapacity of the latter. The President-Elect shall automatically become President one year after assumption of office as President-Elect. By the time of the Annual Convention after election, the President-Elect shall designate a Program Chair for the next year, as stipulated in Article VII, Section 3 of these bylaws, who will serve on the current Program Committee.
6. It shall be the duty of the Society Past-President to serve as a member of the Executive Committee, and to perform the duties of the Society President in the event of the absence or incapacity of the latter and the Society President-Elect. The President shall automatically become Past-President one year after assumption of office as President.
7. In case of the death, incapacity or resignation of any of these officers (excepting the President) the Executive committee shall elect a successor to serve until January 1 following the next election.

### Article IV - Executive Committee

1. There shall be an Executive Committee of the Society consisting of the Society President, President-Elect, Past-President, and the Secretary-Treasurer.
2. The Executive Committee shall have general supervision of the affairs of the Society, performing the duties and abiding by the limitations specified in these bylaws. All actions of the Committee affecting Society policy shall be put to the vote of the membership at the annual Society Business Meeting (providing a quorum is present) or by special mail ballots.
3. All decisions of the Executive committee shall be made by majority vote of the committee members present, except that on a mail ballot, the majority of those returning their ballots within 21 days of its mailing shall decide the issue(s).

### Article V - Nominations and Elections

1. The Officers of the Society shall be elected by a preferential vote of the members on a secret mail ballot.
2. The Secretary-Treasurer shall issue a call for nominations, in the name of the Chair of the Nominations and Elections Committee, for the office of Society President-Elect. The nominations ballot shall provide spaces for at least three names for President-Elect.

3. All officers and members of the Executive Committee shall assume office on January 1 following the Business Meeting at which their election is announced and shall hold office until their successors are elected and assume office in their stead.

#### **Article VI - Meetings**

1. The Business Meeting of the Society shall take place during the annual convention and in the same locality for the transaction of business, the presentation of scientific papers, and the discussion of questions of interest to Chaos Theory in Psychology.
2. A quorum shall consist of 10 voting members.

#### **Article VII - Committees**

1. The committees of the Society shall consist of three standing committees 1) a Nominations and Elections Committee, 2) a Program Committee, and 3) a Publications Committee. The Executive Committee may also charter special committees as needed and ratified by Executive Committee vote.
2. The members of the Nominations and Elections and Publications Committees shall serve for a terms of three years. The members of the Program Committees shall serve for a term of two years. Appointments shall be made during and take effect at the end of the Annual Convention of the Society.
3. The Nomination and Election, Program, and Publications Committees shall each consist of three members appointed by the Executive Committee. The Chairs of these Committees shall be designated by the President.
4. It shall be the duty of the Program Committee to make arrangements for the program at the annual meeting of the Society in accordance with Article VI of these bylaws, and to coordinate the program with the APA Convention. The Program Committee shall consist of two members: 1) a Chair designated by the President and 2) the Past Chair of that Committee.
5. It shall be the duty of the Publications Committee to encourage development of journals, books and articles of relevance to the Society and to establish policies for all publications.
6. Committee Chairs shall present oral reports to the Executive on committee activities during the preceding year. In the absence of the Chair, another member of the committee may appear to present the report. In either case, written copies of the report should be submitted to the Society's President and Secretary-Treasurer by the time of the Executive committee's meeting at the annual conventions of the Society.

#### **Article VII - Dues**

1. Changes in annual dues and assessments of any special dues shall be recommended by the Executive Committee and shall be voted on at an annual Business Meeting or by mail ballot of the members.

#### **Article IX - Amendments**

1. The Society at any annual Business Meeting by a vote of two-thirds of the members present, providing a quorum is present, or by a majority vote of the members of the Society voting by a mail ballot, may adopt such amendments to these bylaws as have been: a) presented and read at the preceding annual Business Meeting, or b) mailed to the last known post office address of each member, or published in the official journal of the Society, two months prior to the final vote on the proposed amendments.