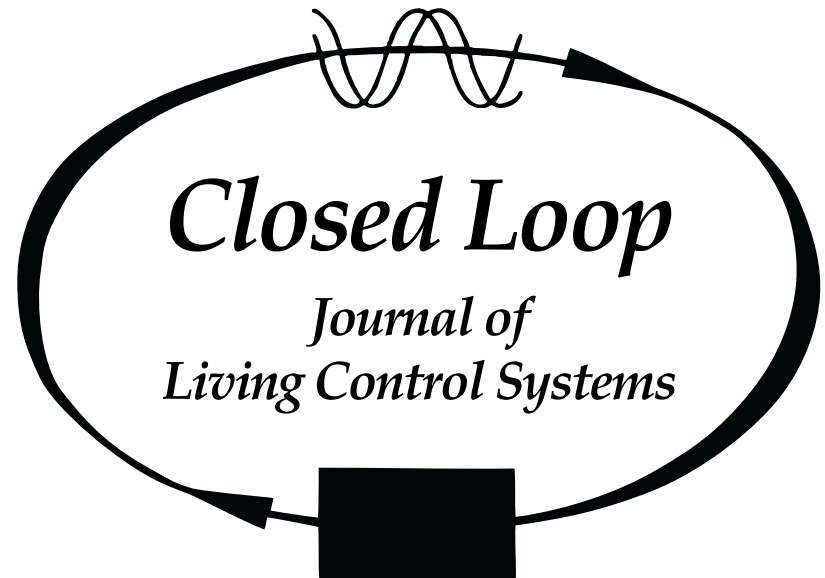


This reproduction of *Closed Loop* was created by Dag Forssell in 2009. Addresses and phone numbers have not been updated. Most are obsolete.

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Back cover



Summer 1994

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Front cover

Closed Loop

Journal of Living Control Systems

Summer 1994 Volume 4 Number 3

Edited by Greg Williams, 460 Black Lick Rd., Gravel Switch, KY 40328

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Back issues of *Closed Loop* are available from Mary Powers, 73 Ridge Place, CR 510, Durango, CO 81301, phone (303)247-7986.

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Inside front cover

CSG Notes

Mary Powers
(73 Ridge Pl., CR 510, Durango, CO 81301)

This is the last issue of *Closed Loop* for now. Perhaps it will be revived in the future, but at this time the contributors we hoped to have are directing their energies elsewhere: to CSGnet or to papers for journals in their own fields.

On behalf of the membership, I want to thank Greg Williams for his time and effort over the past four years as editor and publisher. He worked for very little more than the satisfaction of producing an attractive, professional publication, and we owe him our appreciation and thanks.

My main concern with ending the publication of *Closed Loop* is losing touch with those members for whom this has been the only contact with the group. I will send conference information to everyone on the mailing list, and meanwhile I hope that they can find their way onto the information superhighway.

CSGnet, the electronic mail network for individuals interested in control theory as applied to living systems (perceptual control theory, PCT), is a lively forum for sharing ideas, asking questions, and learning more about the theory. There are no sign-up or connect-time charges for participation on CSGnet. The Internet address is csg-l@vmd.cso.uiuc.edu and csg-l@uiucvmd is the Bitnet address. Messages sent to CSGnet via these addresses are automatically forwarded to over 100 participants on five continents, as well as to hundreds of NetNews (Usenet) sites where CSGnet can be found as the newsgroup bit.listserv.csg-l.

CSGnet can also be accessed via CompuServe, AT&T Mail, MCI Mail, or any other computer communication service with a gateway to Internet or Bitnet. For more information about subscribing to CSGnet, contact Gary Cziko, the network manager, at g-cziko@uiuc.edu or phone him at (217) 333-8577.

The officers of CSG agree that members are entitled to a refund of that portion of dues received which was intended to cover the cost of producing and mailing *Closed Loop*. If you wish to receive a refund of \$25, please contact me by e-mail at powers_w%flc@vaxf.colorado.edu or by writing to the address above. Alternatively, if you would like to contribute your refund to the fund for student conference expenses, then do nothing. If

you sent in dues in the early summer in lieu of coming to the conference, or registered for the conference (whether or not you were able to come), or sent in dues after the conference and up to the present time, you are entitled to a refund.

If you have not gotten around to renewing for 1995, dues are now \$20 (students, \$5). For this, you will get conference announcements, perhaps other mailings about CSG doings, and the satisfaction of supporting CSG and helping students whose interest in PCT we want to encourage. Depending on our bank balance, we might also support some research in a small way.

Following are some notes on recent and upcoming activities of the Control Systems Group:

CSG Conference, Gregynog, Wales, June, 1994: This was the first European conference of the CSG, with participants from the U.K., the U.S., Germany, and France. A *Proceedings* is available from Marcos Rodriguez, Computer Science Dept., University of Wales, Aberystwyth, Wales, U.K., for 15 pounds. While interesting, it does not capture the flavor of the conference itself, which included several presentations not included in the *Proceedings*, and which primarily served (in my opinion) to align the various reports more closely to the PCT perspective. I will not attempt to summarize these reports (participants can send their own summaries to this column) except to remark that PCT provided a common ground for a disparate crew of researchers (in robotics, computer science, experimental psychology, sociology, and enzyme systems—a rather different mix from CSG conferences in the U.S.) to exchange views and learn from one another. Emerging from the conference was a proposal to try to engage the prosthetics community in the design of control systems-oriented devices. An effort is being made to convert videos of this conference to U.S.-compatible tapes, and information about these will be published when available.

CSG Conference, Durango CO, July, 1994: This was our 10th conference. Again, I will not attempt to summarize. Videotapes of this meeting are available from Dag Forssell, 23903 Via Flamenco, Valencia, CA 91355 (\$35 for three six-hour tapes). A unique feature of this conference was the presentation by three educators of their experiences using a PCT approach to create a peaceful and orderly environment for learning in the classroom. Much of what they had to say is in Ed Ford's book, *Discipline in the Home and School* (Brandt Publishing, 10209 N. 56th St, Scottsdale, AZ 85253). That's a whip-cracking title, but the reality of the approach is to teach children who raise hell in the classroom, and who prevent other children from learning, to understand their own goals and learn alternative, less obstructive ways of achieving them.

Ongoing research: Tom Bourbon is currently developing a research program to make quantitative measurements of performance in spinal injury patients before and after corrective surgery. Current assessments of patients' abilities before and after surgery are qualitative and subjective.

Ongoing research: Bruce Abbott, Bill Powers, and Rick Marken (and any others who are interested) are beginning a project to reanalyze operant conditioning (the matching law, etc.) in terms of PCT. This will be ongoing on CSGnet.

Conference: Hugh Petrie is arranging a presentation by CSG members at the American Educational Research Association in April in San Francisco. Participants will include Gary Cziko, Ed Ford, and Bill Powers.

Conference: The annual meeting of the CSG will be at Fort Lewis College, Durango, CO, July 19-23, 1995.

Publishing: CSG Book Publishing has transferred publishing and distribution of *Living Control Systems* and *Living Control Systems II* by William T. Powers, *Introduction to Modern Psychology* edited by Richard J. Robertson and William T. Powers, and *Mind Readings* by Richard S. Marken, to New View Publications, P.O. Box 3021, Chapel Hill, NC 27515-3021. Contact New View for ordering information.

Catalog of CSG Archive Materials

Greg Williams
(460 Black Lick Rd., Gravel Switch, KY 40328)

This lists holdings as of November 1994. Multiple copies of items have not been noted, and originals have not been differentiated from photocopies. In some cases, dating was made by inference from various types of clues, such as dates on computer files from which print-outs were made. Some papers published in CONTINUING THE CONVERSATION are actually housed in the Gregory Bateson Archive at the same address as the CSG Archive (given above).

Any and all additions and corrections are invited. In particular, copies of papers presented and distributed at the 1994 CSG meeting would be most welcome.

Many individuals have provided materials and support for the Archive. I especially want to thank Tom Bourbon, Bill Powers, and Mary Powers for giving financial contributions as well as donating materials. Robert K. Clark, Gary Cziko, Ed Ford, David Goldstein, Phil Lewin, Clark McPhail, Richard J. Robertson, Philip Runkel, Stuart Umpleby, and Michael Yocum donated hard-to-find materials.

I plan to keep this catalog up-to-date as a computer database allowing quick searching for names and titles. For a copy of the latest version of the database (for IBM-PC-compatibles running MS-DOS), send \$10 to me at the address given above.

NOT ITEMIZED

Computer disks with CSG-related files, 1 box.

Correspondence and other materials about CSG, 1 box.

"Little man" computer program materials, including papers, computer disks, and correspondence between William T. POWERS and Greg WILLIAMS, 1 box.

Photographs and slides of CSG members and events.

Unpublished papers and correspondence of William T. POWERS, 1 box.

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Shirt, blue with white "CONTROL SYSTEMS GROUP" and CSG logo embroidery, size L. (Given by Ed FORD to Greg WILLIAMS.)

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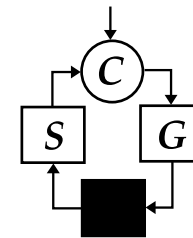
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The Control Systems Group is a membership organization which supports the understanding of cybernetic control systems in organisms and their environments: *living control systems*. Academicians, clinicians, and other professionals in several disciplines, including biology, psychology, social work, economics, education, engineering, and philosophy, are members of the Group. Annual meetings have been held since 1985. The CSG Business Office is located at 73 Ridge Pl., CR 510, Durango, CO 81301; phone (303) 247-7986.

The CSG logo shows the generic structure of cybernetic control systems. A Comparator (C) computes the difference between a reference signal (represented by the arrow coming from above) and the output signal from Sensory (S) computation. The resulting difference signal is the input to the Gain generator (G). Disturbances (represented by the black box) alter the Gain generator output on the way to Sensory computation, where the negative-feedback loop is closed.