Guest Editorial
Dr. Warren McCulloch

The epilogue is the best part of many a book... the point where the author can present the "moral of the story" to the reader. I now write my epilogue as first President of the American Society for Cybernetics and it is good to have this opportunity to exhibit my thoughts for your consideration.

This society was not really born on the date of our founding. Rather it was born as a gradual process we document with events extending over several centuries... the concept of system, the development of mathematical representations for interactive phenomena, the growth of insight into neurophysiological mechanisms, and other achievements gave rise to the group which met under the auspices of the Josiah Macy Foundation.

These conversations developed a new appreciation for the value of crossing the classical disciplines, of identifying the underlying substrate which unifies all scientific thought and all engineering. The spirit which marked these meetings lives on in those who have benefited from their thought and interaction. The present society is a specific outgrowth of these meetings and the philosophy they endorsed. It has been my privilege to help formulate this structure which promises to play a significant role in the

1969 ASC Symposium Takes Shape
Featuring Cybernetics in the Seventies and Conflict Resolution

The format of the 1969 ASC Symposium will be designed to encourage inter-communication," reports ASC Vice President Lawrence J. Fogel, "while maintaining orderly procedure." The three day program will cover three major areas of interest:

- The Campus Confrontation
- Politico-economic Gaming
- Cybernetics in the Seventies

The morning sessions will feature invited papers from leaders in the field under discussion. The afternoon will include contributed paper sessions and interactive sessions. In more detail, the tentative program looks like this.

After the keynote speech on the opening morning, there will be two invited speakers whose task it will be to identify the problem for the day. They will be followed by three invited speakers who will offer alternative approaches to solving the problem as posed. After the luncheon, the meeting will break up into parallel sessions covering various phases of the problem. The speakers offering that specific approach will moderate the ensuing discussion. Speakers with contributed papers will discuss the pros and cons of solutions to the problem.

At 4 p.m. there will be a plenary session wherein the invited speakers will sit as a panel to discuss their own papers, those contributed in the parallel sessions as well as the informal interchanges carried on within those discussions.

This panel discussion will be photographed via motion pictures to provide a record of the interchange (experience has taught us that motion pictures are easier to take and edit than going first through the video tape stage). We also plan to audio tape all of the remaining sessions so that we can dub in background information pertinent to the panel discussions as this might be required for the understanding of someone who has not attended this meeting or previous symposia.

"Hot-line" telephones will be available throughout the auditorium for the audience to use during the plenary sessions. Questions can be phoned in to a switchboard, merged by a screening panel, and then given to the speaker who will read the question and attempt to answer it. This technique will encourage concise questions and efficient response.

Each speaker will (continued on page 3)

Speakers will include Prof. T. C. Schelling (left), Harvard, faculty member, Center for International Affairs, on "Choosing the Right Analogy: Factory, Prison, or Battlefield"; Dr. Raymond Platig (center), Director, Office of External Research, Bureau of Intelligence & Research, State Department, on "Internal Conflict Analysis"; and Prof. Martin Shibik, Yale University, "The Campus Conflict".
Wiener Medal Competition for 1969 Is Open

Both Gold and Sterling Awards in 1969

The American Society for Cybernetics takes pleasure in announcing the opening of the 1969 competition for the Norbert Wiener Medal for Cybernetics.

Initiated in 1968, the Wiener Gold Medal is awarded each year at the Society’s annual scientific symposium to the scientist, engineer, or scholar, age 35 or under, who, in the opinion of the judges, has presented to the Society the most significant paper in the field of cybernetics during the preceding 12 months. To qualify, the papers must be unique, not presented previously elsewhere.

Papers considered by the judges will include those submitted for presentation at national or local ASC symposiums, or submitted for publication in the ASC Journal, ASC Communications or other ASC publication.

Also open for competition this year is the Wiener Sterling Medal for excellence in Cybernetics. This medal is open to all candidates, with no age limitation, under the same parameters as the gold medal competition. At the discretion of the judges, a second Sterling Medal may be awarded to a national figure for contributions made to the field of cybernetics.

All papers submitted for the October 1969 symposium will be included in the competition for both awards.

Call for Papers

The call for papers for the third annual symposium of the American Society for Cybernetics has been issued by Contributed Papers Program Chairman Dr. Edmond Dewan for papers in the following areas of interest:

- Philosophical Problems of Cybernetics
- Theoretical Problems of Cybernetics
- Medical and Psycho-biological Cybernetics
- Technical Applications of Theory of Computers and Automata
- Technical Applications of Information Theory
- Technical Applications of Game Theory
- Cybernetic Devices
- Applications of Cybernetic Methods and Technology in Humanities and Social Sciences

Suggestions on additional subject areas will be considered if sufficient interest is shown and if the subject is proposed early enough.

Outlines of 300 words (minimum) are due by July 30th. Confirmation of topic will be given prior to August 30th. Final papers must be submitted no later than October 1st. Each paper will then be reviewed and returned to the author for recommended modifications (as necessary).

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advance of science and technology as well as society in the large.

Nor are we alone in this recognition. As stated in a recent issue of "Ekonomi i Matematieckoi Metody," "One of the most important consequences of the contemporary scientific and technological revolution is the sharp growth of the role of science in all areas of public life, an even greater direct application of science to production. The economic, social and cultural development of society increasingly depends on the exploitation of scientific and technical achievements and discoveries."

The validity of cybernetics as a concept is no longer in question. The task remains to demonstrate its worth both from the standpoint of new scientific achievements, and engineering applications which benefit society.

And this I leave to you...for I have done all I can. It may take years for my contribution to be (continued on page 4)

Spartan Press Signs for 1968 and 1969

The SPARTAN BOOKS Division of BOOKS, Inc. announced today that Mr. Leonard Klingburg, President of BOOKS, Inc. has signed a contract with the American Society for Cybernetics for publication of the 1968 and 1969 Proceedings.

Dr. Edmond Dewan of the Air Force Cambridge Research Laboratories has been named editor. This past year’s Proceedings are expected to be available well in advance of the 1969 fall meeting and an announcement will be made at the appropriate time regarding cost and discount to ASC members.

The 1967 symposium Proceedings “Purpose Systems” are now available to all Society members at $8.00, a 20% discount from the $10.00 booksellers’ price.

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Toronto Chapter Seminar May 16th

Under the capable guidance of Dr. Robert Pos of the Toronto General Hospital, the fledgling Toronto Chapter of the American Society for Cybernetics plans to hold an organizational seminar at the Sunnybrook Hospital in Toronto on May 16, 1969. A number of the national officers of the Society plan to attend this kick-off meeting of the ASC's first Canadian Chapter.

The program will open at 9:00 a.m. and will run until 4:00 p.m. A number of technical papers are scheduled for the day-long meeting to be presented by members of the Canadian scientific community. These papers will be eligible for the Nor­bert Wiener gold and sterling awards competition for 1969.

For additional details on this program, please contact: Dr. Robert Pos, Toronto General Hospital, Toronto, Ontario, or Dr. B. Goodfellow, IBM Corporation, 1150 Eglinton Avenue East, Don Mills, Ontario, Canada.

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then retire to the Speakers' Room where he may be joined by those individuals who wish to pursue the conversation with the speaker on more personal terms. The audio tapes of the speeches they might miss will be made available in the evening.

Plans call for the evening dinner to be a smorgasbord, where each table will have a topic label. People with common interests can then sit together. This dinner will be followed by a major after-dinner speaker.

The evening of the second day will be devoted to a simulation experiment wherein the participants may take sides and interact in a confrontation game in fast time. This should provide excellent insight to some of the many difficulties of mathematical modelling.

The close of the meeting will set the stage for defining other problems of significant interest which may be addressed through the principles of cybernetics, including feedback analysis, computer simulation, mathematical modelling, and a recognition of the general inter-dependency of the various disci- (continued on page 4)

Brain Wave Communications with Computers?

As explained in the January, 1969 issue of SCIENCE & TECHNOLOGY, Dr. Dewan carried out this experiment through the use of an electroencephalogram (EEG), tuned to the alpha rhythms of his brain. By consciously controlling his alpha rhythm, Dr. Dewan sent Morse code to the computer which in turn, converted it into a teleprinting code for a print-out of the first readable word ever recorded directly from the human brain.

Dr. Dewan, currently very active for the Society as editor of the 1968 ASC Proceedings of last fall's meeting on Large Systems, is also a candidate for vice president of the ASC for 1969. His article in the January, S & T is entitled "Rhythms" and discusses the common thread between the vast variety of oscillations in our natural environment.

Dr. Dewan feels that the ways technology is changing our environment may well be putting man in step with an entirely new drummer. In discussing his thought-provoking theme, Dr. Dewan covers the field of heart transplants, space flight, control of ovulation by light, biological clocks, fliker rate and EEG.

A most exciting article that you should all take time to read.

Sherwood Takes Over Membership for ASC

Encouraged by what he saw at the Society's recent annual symposium in Gaithersburg, Maryland, Dr. Stephen L. Sherwood of Palo Alto, California, stepped up to ASC President-Elect Dr. Lawrence Fogel and asked to be put to work. Never known to pass up a new recruit for the working ranks of the Society, Larry immediately signed Dr. Sherwood on as Chairman of the Membership Committee. In addition to the responsibility of monitoring incoming applications and checking references, Dr. Sherwood will also be developing programs to boost the membership rolls of the Society to a point where income from dues and broadened participation in our conferences will produce revenue of a level to make our publications program self-sustaining.

Dr. Sherwood is presently Associate Professor of Medicine (neurology), Stanford University Medical School; and Chief, E.E.G. Laboratory, V.A. Hospital, Palo Alto. Previously, he was Associate Professor, Psychiatry, University of Illinois College of Medicine and Neurosurgeon, Illinois State Psychiatric Institute. He was a graduate of the University of Vienna in 1938; Anderson College of Medicine, Glasgow, 1944; and an external student of London University.
Society's Washington Chapter Active

(Top): A contingent of the ASC Washington Chapter's 100-plus membership met for a pre-meeting dinner at Washington's St. Regis Restaurant on April 1st. Dr. Paul Henshaw, ASC's first chairman, presides at the head table. (Above): In addition to the scheduled program of speakers, a number of exhibits were available for the participants to review.

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of demonstrated value but my reward comes more immediately... in the eyes of the young scientists and engineers who eagerly attack today's tough problems, It is within them that I live. Hopefully, the American Society for Cybernetics will foster just such wide-eyed scientific enthusiasm and become a temple wherein future generations of such men may exchange ideas and thus gain greater understanding of the problems they face and of alternative methods for their solution.

My hopes for this society rest on firm shoulders... those of our next president, Dr. Lawrence J. Fogel. I expect this society to prosper under his guidance. I join with you in wishing him and the society success. May the American Society for Cybernetics become a vital force and serve mankind by helping to develop technology in support of the highest ideals.

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plines through analogies and overlap of interests.

The third symposium will take place October 14, 15, and 16 at the National Bureau of Standards in Gaithersburg, Md. Suggestions as to possible speakers and to improve the format are invited by Dr. Fogel. He can be contacted at Decision Science, Inc., 4508 Mission Bay Drive, San Diego, California 92109.

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I plan to □ Attend the symposium
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The subject of my _________ is ____________________

I volunteer to □ Chair a session
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