

portant problems in atmospheric and space electricity. The response, even from the U.S.S.R. scientists, was practically 100 percent. From these "data" I formulated a scientific program, which was circulated to all concerned with a request for suggestions and constructive criticisms. These were duly studied. The salient suggestions were included in the final program, which consisted of approximately 20 important problems.

My next choice was to find speakers who were willing to discuss each of these problems in a short, concise paper. I had more volunteers than problems. Each speaker was required to submit his paper not later than one year before the conference. The papers were reproduced and distributed for comments and criticism to all the invited scientists. These comments and suggestions were edited and redistributed. Inserted in the last distribution was a note informing everyone that only a résumé of the paper would be presented at the conference, and that each conferee should come prepared to discuss each paper. They did.

The papers were grouped into problem areas or sessions. The most important task in a meeting of this type is the selection of knowledgeable and articulate chairmen of the sessions. Fortunately, a large number were available. Each chairman was "primed" to provoke discussions and arguments. (This proved unnecessary, because all the discussions were vigorous and heated.)

The meeting place selected had a long history of catering to international geopolitical gatherings. The Montreux Palace Hotel provided complete hotel accommodations to the conferees and a large, well-equipped meeting room with cloth-covered tables. On each table there were two microphones which were under the control of a monitor. No one had to stumble over chairs in order to get to a microphone. The proceedings were recorded professionally on tape and immediately transcribed by a battery of secretaries. The transcriptions were reproduced and available to everyone.

Two years of effort were required to organize this conference and to implement its plan. What results accrued from it? I have received many letters from the 180 conferees extolling all aspects of the conference, but more important was the information that

they have initiated new research programs based on ideas acquired at the conference. Prior to the conference, there were about 20 countries actively engaged in atmospheric and space electricity, whereas today there are about 36, indicating an expansion of research efforts and also an attraction to it of younger scientists.

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Herbstreit's report on the recent Radio Meteorology and Weather Radar Conference (1 Jan., p. 76) speaks favorably of the manner of its organization. The organization consisted of an advance printing of all accepted papers in lieu of their oral presentation, coupled with the use of "lead speakers" to present review papers and to introduce the discussion of new developments reported in the contributed papers. Herbstreit says that "This method of operation for the most part worked extremely well, and except for a few instances in which the conference participants had not done their homework, resulted in participation in the discussions of almost the entire assembly of over 300 scientists and engineers. . . ." I attended many of the sessions of this conference, and my observations were considerably at variance with Herbstreit's.

The preprints were very useful in alerting me to what I wanted to hear more about and to what I wanted to question. Unfortunately, many of the authors were not in attendance and thus contributed nothing in person to the conference. Publication in a regular journal, in more complete format than that of the preprints, would have been as effective, if not more so, through reaching a wider audience.

The lead speakers seemed to come in three types. The first type consisted of those who detailed their own work, thus functioning as normal contributors to a normal conference. However, they mainly tried to direct questions and comments away from their own work to the contributed papers. Here again, the absence of the authors was unfortunate. The second type consisted of those who hadn't done their own homework, as Herbstreit said of some participants, and who seemed to be "marching to a different drum." Fortunately, this type was small in number.

The rarest was the third type: those few lead speakers who spoke to the subjects of the contributed papers and led off and controlled the ensuing discussion.

In the absence of authors, the discussions contained much guessing and deducing. With poor leadership, there was much trotting out and displaying of favorite horses. Far from "participation . . . of almost the entire assembly," most of the discussing seemed to be done by a handful of loquacious participants, among whom I must number myself.

My ultimate comment concerns the inadvisability of ever so organizing such a conference again. If the experiment is repeated, perhaps it should be modified by requiring a heavy attendance deposit from all authors, and convening the lead speakers one day prior to the conference to go over their review papers and instruct them in spreading the discussion around. I still claim that the ideal conference is the author standing beside you in an otherwise deserted bar with plenty of paper napkins for sketching upon.

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## Addendum

I found Dael Wolfe's recent editorial on the AAAS support of Goddard's work (25 Dec. 1964, p. 1639) most interesting and refreshing, particularly as a stark contrast to current concepts of the amount of funds necessary to support worthwhile research. I should like to insert in the record, with what I believe to be justifiable pride, the fact that the funds provided by the Smithsonian Institution in support of Goddard's work were given to the Smithsonian for that specific purpose by Research Corporation. To those of us who are currently associated with Research Corporation, these grants for the support of Goddard's work exemplify many similar grants made early in the history of the foundation that impress us with the wisdom and prescience of our predecessors.

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