

THE THIRD EUROPEAN MEETING ON FERROELECTRICITY (EMF-3)

EMF-3 will take place at the Swiss Federal Institute of Technology (ETH) at Zurich, Switzerland, September 22-26, 1975.

The program is intended to cover all aspects of the study and applications of ferroelectricity and related topics, in particular the study of structural phase transitions. It follows the pattern set by the conferences in Sarbrücken (1969) and Dijon (1971).

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PROCEEDINGS

Guest Editorial

EMF-3, the Third European Meeting on Ferroelectricity, was held in Zurich, Switzerland, from September 22-26, 1975, and attracted about 250 scientists. Fourteen invited papers were given in plenary sessions, which were followed by 175 contributed papers in three parallel sessions. The Program Committee made a special point of choosing several young scientists as invited speakers.

The "classic" problems in ferroelectricity and its applications are still of considerable interest. New aspects were introduced by the discovery of low-dimensional ferroelectric correlations. The results of renormalization group theory and its applications to dimensionality of importance for many ferroelectric transitions and for the entire field of structural phase transitions. A large fraction of the talks and discussions at the meeting was dedicated to the physics of structural phase transitions and applications. This trend had already been observed at EMF-2 in Dijon in 1971 and particularly at IMF-3 (International Meeting on Ferroelectricity) in Edinburgh two years ago. It was encouraged by selecting a balance of invited papers on classical properties of ferroelectrics, physics of structural phase transitions and applications, exposing new results on electro-optic and holographic storage. The selection appeared appropriate, since about the same ratio was observed for the contributed papers.

The interaction among the people engaged in these different activities was excellent and the discussions in all sessions were lively and to the point. It is a good example of how a scientific field can be kept very active by expanding the program with new fields which can strongly interact with the traditional activities. The fact that there was more discussion

on applications than in previous meetings is a sign of today's attitude to solid-state research. Technological problems and research on applications have been accepted as part of research in ferroelectricity. An experiment was tried in the form of an afternoon boat-side discussion on the lake of Zurich. Beer and blackboards were provided, and discussion sessions on four topics of special interest were organized. Many people participated actively in these parallel sessions, while others enjoyed the pleasant sunny afternoon on deck.

The editors of "Ferroelectrics" agreed to publish the Proceedings of the Conference. Due to the efficient refereeing by the session chairmen it was possible to have the Proceedings printed within a short time. We should like to express our thanks to all of them for their careful work. We are also obliged to Mrs. R. Trüchler for her skillful aid in getting the manuscripts ready for print.

The Proceedings include a number of contributions from Russian colleagues, who were prevented from attending despite their intentions to participate. Their papers were available at the conference and the abstracts read by their colleagues. We really appreciate the spontaneous cooperation of I. B. Bersuker for giving an invited paper for our absent colleague B. A. Strukov. On this occasion we should like to thank the Swiss Federal Institute of Technology (ETH) in Zurich for the use of their lecture halls and splendid facilities. Thanks are also due to the many sponsors who made this conference possible, in particular to the Swiss National Science Foundation.

In the name of the Organizing Committee of EMF-3, the Guest Editors,

K. A. MÜLLER and W. J. MERZ



Boat-side discussion on the lake of Zurich in which beer and blackboards were provided, as mentioned in the Guest Editorial of the Proceedings of EMF-3, reproduced above. In the photographs are recognized (1) A. Hemmos (Thomson-CSF, Paris (FR)), (2) B. Jiménez (CSIC, Madrid (ES)) and (3) H. Schmitt (University of Saarland, Saarbrücken (GR)).

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