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5th EUROPEAN MEETING ON FERROELECTRICITY (EMF-5)

Benalmádena (Málaga) SPAIN
Sept. 26 - 30, 1983

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Reception of H.M.K. of Spain, D. Juan Carlos I (1), President of the Honor Committee, to some of the members of the Organizing Committe of IMF-5: (2) B. Jiménez, (3) F. Jaque, (4) J. del Cerro, (6) M.T. Montojo, (7) K.A. Muller (Chairman of the European Steering Committee), (8) J.A. Gonzalo,(9) V. López,(10) E. Maurer,(11) J.F. Peraza and (12) L. Montoto

Ferroelectrics, 1984, Vol. 53, pp. iii-iv
0015-0193/84/5301-0iii/$18.50/0
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Printed in the United States of America

GUEST EDITORIAL

The fifth European Meeting on Ferroelectricity (EMF-5) was held at the Conference Halls of the Hotel Alay, Benalmádena, near the city of Malaga (Spain), from September 26 to 30, 1983. Malaga is a very old city which has received, during its thousand year history the visit of many peoples. Carthaginian, Roman, Northern European and Arabs have settled at different times in its surroundings and have left their imprint on this city, which in recent years has become a tourist attraction for people from Europe and from other parts of the world. It is a Mediterranean city as is Portoroz (Yugoslavia), host of the previous EMF-4.

The number of registered participants at EMF-5 was in excess of 250, and the number of countries represented, 26, made apparent the truly european and international character of the meeting. Spain, France, Germany and the USSR, were the countries with highest number of participants at EMF-5.

The scientific program of the conference opened with an overview of the history of research in ferroelectrics since its discovery and a summary of its present status as indicated by the abstracts of works to be discussed at EMF-5. The conference was closed with a round-table session at which possible trends were analyzed and specific recommendations were made for future work. The program itself contained 23 plenary lectures (40 min) distributed among morning sessions and early afternoon sessons, 9 invited talks (20 min) presented at three evening special sessions, and about 300 poster presentations distributed in twelve sessions at which a considerable amount of outstanding recent work, both theoretical and experimental, was discussed.

The general consensus among the participants was that EMF-5 was an excellent conference, attracting both oldtimers and newcomers to our field and creating a spirited atmosphere for scientific discussion and for personal contacts. The scope of the EMF series, (as well as that of the IMF's for that matter) has expanded considerably during the past decade bringing in closer contact people whose interest is in traditional aspects of research in ferroelectrics with people working in other fields of condensed matter physics and in the physics of cooperative phenomena on one hand, as well as with people involved in recently developed new fields of technological importance. Being able to integrate together this broad spectrum of scientific interest is, we believe, a very good thing, which the ferroelectrics community should strive to maintain in the future.

Very authoritative voices at the conference pointed out the need to pay more attention to the microscopic theory of ferroelectricity, and to integrate the phenomenological approach with both the older and the recently developed theoretical models.

The members of local organizing committee of EMF-5 should like to express their deeply felt appreciation to all contributors, invited speakers, session chairmen and referees who have devoted their time, talents and their dedicated efforts to making it a successful meeting. And we would like to especially thank Professor K. A. Muller the chairman of the European Committee who has worked together with us in the long process of preparation of EMF-5's program.

We wish for the next EMF-6, announced at the closing session of our conference, the same kind of warm support which we found from the European Steering Committee and from the international scientific community at large.

Guest Editors:

J. A. Gonzalo
University of Autonoma de Madrid

B. Jimenez
National Research Council Madrid

October 1983



FOREWORD

The aim of the Fifth European Meeting on Ferroelectricity held at Benalmádena Costa (Málaga), Spain, is to provide an up to date overview of the activity in the whole field of ferroelectricity, and to promote interaction between participants interested in ferroelectrics and related materials.

The scientific program begins on Monday morning September 26, and ends on Friday evening September 30, 1983. It is opened with a keynote speech on recent developments in ferroelectrics and with an introductory review of past, present and possible future trends in the field. It includes 23 invited conferences on a variety of topics including, among others, interrelationships between ferroelectricity and other cooperative phenomena, as well as applications, 3 special sessions and a final round table session. Distributed among twelve poster sessions are about 350 contributed papers by authors from 28 countries of all over the world.

This booklet includes the abstracts of invited conferences and contributed papers. Only one page was allowed for each abstract. The abstracts have been directly reproduced, reduced in size, from the typescript copies furnished by the authors. All abstracts accepted are grouped under the subject headlines of the scientific program indicated by the author(s) or otherwise by affinity of scientific content.

Original papers presented at the conference before the deadline for submission of manuscripts (Sept. 26) and finally accepted for publication, will be published in the Meeting Proceedings which will appear in the journal "Ferroelectrics".

We hope that the Meeting will contribute to a broader collaboration and to a closer personal relationship between colleagues working in these fields and will open new contacts in the future.

The Organizing Committee would like to thank His Majesty the King of Spain for have been accepted the Presidence of the Honorific Committee the EMF-5. We would also like to thank the European Steering Committee for the designation of Spain as the host country of this fifth edition of the European Meetings on Ferroelectricity. We express our appreciation very specially to Prof. K.A. Muller, President of the Steering Committee, for his continuous support and suggestions regarding the organization of this Meeting. We thank also to all scientists that have accepted our invitations to give invited conferences and/or to be chairmen of the sessions of the Meeting and to all participants for their contributions.

Finally we should like to express our recognition to all agencies and corporations which have contributed to the financial support of the EMF-5.

We welcome to Spain all EMF's participants and accompanying persons and wish them a very pleasant stay in our country.

Madrid, September 25, 1983

The Organizing Committee



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W. BRIXEL
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