

Conference News

1974 CONFERENCE ON DISPLAY DEVICES AND SYSTEMS

This was held on October 9th–10th, 1974, in New York City at the Statler Hilton Hotel. Four sessions were held over the two days and there was also a Seminar entitled “A Survey of Electrochromic Display Materials and Devices”. Subjects covered included Plasma Display Panels, Use of Holography, L.E.D. Display Devices, Improved Colour Cathode Ray Tubes and Systems, Thin Film Switching Matrices for Flat Panel Displays, Electroluminescent Display Panels and Liquid Crystal Systems.

The Proceedings of the Conference are being published shortly and the cost to I.E.E.E. and/or S.I.D. members is \$10, \$14 for all others. Orders for the Proceedings should be addressed directly to the I.E.E.E. at 345 E. 47th Street, New York 10017.

THE PHYSICS OF NON-METALLIC THIN FILMS

This conference, which was run as an Advanced Study Institute by N.A.T.O., was held in Corsica from 29th August to 12th September, 1974. The Conference was directed by Professor Dupuy of the University of Lyons and involved lectures from experts from around the world, on various aspects of non-metallic thin films. As well as the lectures themselves, several panel discussions were held in the evenings and the venue also gave the opportunity for numerous workshops to be set up between the participants and various lecturers.

The programme was divided into four parts. The first part was concerned with basic concepts and included lectures on preparational methods, growth processes and electronic states in semiconductors.

The second part of the conference was concerned with characterisation of non-metallic thin films, including structural determination of films, physico-chemical analysis techniques and film thickness measurement.

The main part of the conference was concerned with the third aspect, namely lectures on the physical properties. Electrical transport and switching phenomena were examined at length as well as

dielectric characterisation, mechanical effects, optical properties and finally, the effect of radiation on properties, including the performance of devices.

This last lecture, in fact, could also be considered as part of the final part of the programme which was concerned with applications. In this final part, lectures were given on the role of thin films in microelectronics and also in optics. Two lectures were also given on various other areas of application such as FET microwave devices based on epitaxial GaAs films, infra red detectors based on PbSnTe or InSbAs and capacitors using flash evaporated BaTiO₃. Another lecture in this area of miscellaneous applications, considered magnetic bubble systems, ferroelectric stores and light modulators, the latter depending on obtaining extinction contrast in bismuth titanate.

These lectures will be published in the near future in book form by Plenum Press, and should provide a very valuable summary of the present state of the art in the Physics of Non-Metallic Thin Films.

20th ANNUAL CONFERENCE ON MAGNETISM AND MAGNETIC MATERIALS

December 3rd–6th, 1974. This will be held at the Jack Tar Hotel in San Francisco, California. The meeting is sponsored by the I.E.E.E. Society of Magnetics and the American Institute of Physics. The main areas of interest to be covered are experimental and theoretical research in magnetism, properties and synthesis of new magnetic materials, and advances in magnetic technology. Further information is available from the Conference Chairman, J.M. Lommel, General Electric Co., Research and Development Center, Schenectady, New York 12301.

A Satellite Conference for specialists in magnetic bubbles will take place in San Jose on December 9th–11th, 1974. This is being organised by J. C. Slonczewski, I.B.M. Research Center, P.O. Box 218, Yorktown Heights, N.Y. 10598.

SPUTTERING CONFERENCE

A Conference is being run on Sputtering at Mulhouse, France. 5th–6th December, 1974, under the title "Analyse et Introduction Controlée D'Elements Dans les Couches Minces"

Papers will be concerned with analytical methods which can be applied to the films, as well as the sputtering phenomenon itself.

Interested scientists should contact Professor B. Laville Saint-Martin, Maitre de Conférences, University of Strasbourg, Laboratoire de Physique Appliquée Aux Couches Minces, 61 Rue Albert Camus, 68200 Mulhouse, France.

I.E.E.E. INTERNATIONAL ELECTRON DEVICES MEETING

December 9th–11th, 1974. This will be held in Washington, D.C. Specific areas to be covered will include devices technology, integrated electronics, solid state devices, image transducers and opto-electronic devices, lasers and quantum electron devices and electronic tubes.

The deadline for abstracts was August 12th, 1974. All communications should go to Dr. William C. Holton, 1974 I.E.D.M. Technical Program Chairman, Texas Instruments Inc., M/S 145, P.O. B. 5936, Dallas, Texas 75222. U.S.A.

1975 ANNUAL RELIABILITY AND MAINTAINABILITY SYMPOSIUM

January 28th–30th, 1975. This will be held at the Sheraton Park Hotel, Washington, D.C. All enquiries to:

Robert E. Hilton, Registration Vice Chairman, Technology Applications Laboratory, P.O.B. 1823, Melbourne, Florida 32901. U.S.A.

1975 INTERNATIONAL RELIABILITY PHYSICS SYMPOSIUM

1st–3rd April, 1975. This will be held at the MGM Grand Hotel, Las Vegas, Nevada. It is co-sponsored by the I.E.E.E. groups on Electronic Devices and Reliability. Papers are solicited which describe unpublished work in the following areas:

Failure analysis techniques; failure mechanism studies; accelerated testing and extrapolation; process

control and reliability and evaluation of parts; materials and processing.

The following device areas are of particular interest: Silicon based technology, packaging, bonding etc., silicon-oxide interfaces; contacts etc., hybrid microcircuits, including passive components; L.S.I., and new technologies such as microwave, opto-electronic and acoustic devices.

The late news deadline for the papers is the 1st February, 1975. These papers, which will be submitted for 10 minute presentation, will reflect important new developments and will be considered if 100 word abstracts and 300–500 word summaries are received.

For further information contact: Mr. Alfred L. Tamburrino, Technical Program Chairman, 1975 Reliability Physics Symposium, R.A.D.C. (R.B.R.P.), Griffiss A.F.B., N.Y. 13441.

INTERNATIONAL CONFERENCE ON MAGNETICS (INTERMAG)

April 14th–17th, 1975. This meeting will be held at Imperial College, London University, England and is sponsored by the Magnetic Society of the I.E.E.E., I.O.P. and the I.E.E.

Contributions are solicited in all areas of applied magnetics and related magnetic phenomena. Contributions should be forwarded to: E. C. Snelling, Mullard Research Laboratories, Redhill, Surrey. RH1 5HA, U.K.

Although papers should have been received by 20th November, 1974, prospective authors are advised to contact the above if they have not already done so.

1975 ELECTRONIC COMPONENTS CONFERENCE

The 25th Electronic Components Conference will be held May 12th–14th, 1975 in Washington, D.C. The conference committee has invited papers dealing with current and new work in the areas of:

Passive Discrete Components – including connectors and contacts, switches, capacitors, resistors, inductors and relays.

Active Discrete Components.

Microelectronic Components – including hybrid modular passive networks and active microcircuits.

Abstracts of papers were due on October 15th, 1974. For all further information contact: Dr. L. Ken Keys, Program Chairman, 1975 Electronic Components Conference, Bell-Northern Research, Box 3511, Station C, Ottawa, Ontario, Canada. K1Y-4H7.

1975 I.E.E.E. SYMPOSIUM ON THE APPLICATIONS OF FERROELECTRICS

June 9th–11th, 1975. To be held at the Albuquerque Hilton Hotel in Albuquerque, New Mexico.

Original papers describing significant applications of Ferroelectrics and related materials are invited. Topics of interest include:

Pyroelectric sensors – vidicons, arrays, point detectors etc.

Memories, Displays and Optical Signal Processors – light deflectors, page composers, holographic memories, correlators, light valve tubes etc.

Thin Film Devices and Technology – integrated optics, broad band modulators, surface wave devices etc.

Dielectrics and Piezoelectric Ceramics – P.T.C. control devices, barrier layer capacitors, low temperature bolometers, energy storage etc.

New Coupling Effects – Magnetoelectricity, ferroelasticity, etc.

Photo-Effects in Polar Materials – optical damage, photo-dielectrics, photo-conductive and photovoltaic-ferroelectrics etc.

Authors should submit abstracts of their papers of around 250 words, by January, 1975, to the Chairman of the Program Committee: Professor L. E. Cross, Room 251A, Materials Research Laboratory, The Pennsylvania Park State University, University Park, Penn. 16802, U.S.A.

The refereed, full length Proceedings, will be published in the International Journal *Ferroelectrics*.

THIRD INTERNATIONAL CONFERENCE ON THIN FILMS

The firm announcement has now been given for this meeting, which will be held 25th–29th August, 1975 in Budapest. The deadline for abstracts is December 1st, 1974 and the contact is: Dr. P. B. Barna, Secretary, 3rd International Conference on Thin Films, Research Institute for Technical Physics, Hungarian Academy of Sciences, 1325 Budapest, Ujpest 1, P.F. 76, Hungary.

CONFERENCE ON HYBRID MICROELECTRONICS

This will be held at the University of Technology, Loughborough, U.K. September 9th–11th, 1975.

The conference is organised by the I.E.R.E. in collaboration with the International Society for Hybrid Microelectronics (I.S.H.M.). Specific themes for the conference are as follows:

New Materials and Techniques; the problem of add-on components; Packaging of hybrid microelectronics; the designing of hybrid microelectronic circuits against problems on testing; reliability etc., applications of hybrid microelectronics in the field of consumer electronics, high frequencies, including microwaves and optoelectronics; education.

A Synopsis of about 200 words is required from contributors, to arrive not later than 31st December, 1974. Final written papers are required by 30th April, 1975.

Two sorts of papers are sought, either full papers of approximately 4,000 words and able to be presented in 20 minutes, or short contributions of approximately 1,200 words and able to be presented in 5 minutes.

Further information and registration forms can be obtained from the Conference Secretary, I.E.R.E., 8–9 Bedford Square, London, WC1B 3RG. U.K.



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