Materials Research Society

NEWSLETTER SEPTEMBER 1978

ANNUAL MEETING

Interest is running high in the 1978 Annual Meeting to be held in the Boston-Sheraton Hotel, Boston, November 28 - December 1. One indication of this fact is the necessity to add that extra day (November 28) to the original dates in order to accommodate the large number of high quality papers submitted. Another is the rate of inquiries for information on the meeting received to date.

Rudy Voorhoeve, his colleagues on the Program Committee, and the chairmen of the ten symposia have done an excellent job in arranging sessions dedicated to disseminating up-to-date information on goal-oriented materials research.

The program and registration information will be sent to all members and inquirers next month. Additional copies will be available on request from the office (see below).

MEMBERSHIP DUES

Current membership in the Society stands at 274. Ninety-three (about one-third) of these persons have sent in their 1978 dues. [This is LARGELY DUE TO THE DISORGANIZATION IN THE (PREVIOUS!!) M.R.S. OFFICES.] We encourage those of you who are not in this "select group" (!) to please do so now (see blank below for your convenience). 1979 dues are also now being received (see same blank below); you may, if you wish, take care of the latter matter at the Annual Meeting. If you are not sure about your status, a call to the office will get you the information. You may also wish to use the duplicate of the form below to encourage a colleague(s) to join the Society. Remember, this is a fledgling society which has 100% volunteer help so far, and needs now as we enter the growth phase the "front money" of members dues just to operate.

MAILING ADDRESS

General Secretariat, M.R.S. 102C Materials Research Laboratory University Park, PA 16802 Telephone (814) 865-3424

VON HIPPEL AWARD

Pioneering contributions to the cause of interdisciplinary materials research are recognized through this award of the Society. The award consists of a 6-inch single crystal ruby and a cheque for \$1000.

Nominations for the $\underline{1979}$ award, consisting of a one-page description of the candidate's accomplishments, may be sent to the Chairman of the Award Committee, c/o The Secretariat. The data should stress the contributions to interdisciplinary materials research which would tend to be missed by disciplinary societies.

EDUCATION COMMITTEE

The President, upon invitation of the Educational Modules in Materials Science and Engineering (EMMSE) project, has agreed to appoint a committee consisting of a representative from each symposium to serve as the EMMSE Topic Area Team to cover new fields. This will be a continuing committee, with some rotating members.

Expenses for their functioning will be provided by EMMSE. It will provide a unique and rapid opportunity of getting the subject matter of our symposia into an educational format, for universities and industry. Members interested in working on this committee should write the President and/or the symposium chairman in his/her area of expertise.

ELECTION RESULTS

Balloting for offices and council members turned out as follows: President - K. A. Jackson (Bell Labs.); President-elect and Program Chairman - R. Voorhoeve (Bell Labs.); Secretary - R. E. Newnham (Penn State); Treasurer - S. E. B. Petrie (Kodak); Councilors - T. W. Barbee, Jr. (Stanford); G. E. Brock (IBM), J. W. Mayer (Cal Tech), H. Poppa (NASA - Ames), K. C. Taylor (General Motors); Past Presidents - Rustum Roy and H. C. Gatos. Terms run two years, except President and President-elect. Elections are held in the spring of each year, with terms of service beginning the following January 1.

MATERIALS RESEARCH SOCIETY

I enclose \$15.00 as dues for calendar year [] 1978 [] 1979. \$5.00; enclose evidence of University registration.)	\$25.00 for	both years [].	(Student membership,	
Name	Address		· · · · · · · · · · · · · · · · · · ·	_
	,			
	,			
Disciplinary Background			· · · · · · · · · · · · · · · · · · ·	
Highest Degree				_
Present Interests:				

	(E) ducational			MATERIALS (COMPOSITION)										
	M odules for M aterials S cience and E ngineering		ERAL	8				STI						
			IN GENERAL	ALL	OYS			MATERIALS	SOLIDS					
			SOLIDS 1	Sn	NON-FERROUS	CERAMICS, incl. cement	ERS	ELECTRONIC M	NON-CRYST. S	& PAPER	SITES	BIOMATERIALS		
			ALL S	FERROUS	NON-F	CERAM	POLYMERS	ELECT	NON-C	MOOD	COMPOSITES	BIOMA	OTHER	
	SIIR	I F C T A R F A		A	8	С	D	Ε	F	G	Н	I	J	K
	SUBJECT AREA SOLID STATE PHYSICS 1		1	, , , , , , , , , , , , , , , , , , ,								-		
BASIC SCIENCES		CRYSTAL CHEMISTRY	2											
		PHASE EQUILIBRIUM	3											
	THERMO- DYNAMICS	THERMOCHEMISTRY	4								-			
		-DIFFUSION	5											
401	KINETICS	REACTIONS:	6											
2		MECHANISMS	7											
		—CRYSTAL MICRO	8											
3	STRUCTURE	DEFECT	9											
CHARACTER I ZATION		SURFACES.	10											
ERIZ		INTERFACES	11											
WAC.	CHEMICAL COMPOSITION	-BULK												
쾽		NON-DESTRUCTIVE	12											
		TESTING	13											
=		INSTRUMENTATION	14											
		MIN. PROCESSING	15											
		EXTRACTION: HYDRO, PYRO, ELECTRO	16											
		ULTRAPURIFICATION	17											
	PREPARATION	PARTICULATES	18											
SING		SINGLE CRYSTALS	19					_						
PROCESS ING		THIN FILMS	20											
PR		SOLID: FORGING, SINTERING	21											
	FORMING	FLUID: CASTING, EXTRUDING, CVD	22											
	LOIGHTING	FINISHING: GRINDING, COATING	23											
_		-JOINING	24											
-		THERMAL	25											
		MECHANICAL: ELASTIC, PLASTIC, FRACTURE	26											
		ACOUSTIC	27											
		OPTICAL	28											
IES		ELECTRICAL: DIELECTRIC	29											
PROPERTIES		MAGNETIC	30											
8		CHEMICAL: CORROSION, ADHESION	31											
		NUCLEAR: RADIATION EFFECTS	32											
		BIOLOGICAL	33											
		RHEOLOGICAL	34											
		MATERIALS	35											
		SELECTION DESIGN WITH	36							-				
ONS		MATERIALS -STRUCTURAL	37											
CAT		ELECTRICAL, MAGNETIC.	38											
APPL ICATIONS	FUNCTIONS	OPTICAL SURFACE: FRICTION,	39											
		WEAR, CORROSION OTHER: THERMAL, NUC-	40											
Ξ		LEAR, BIOLOGICAL								1			1	