Europos Medžiagotyros draugijų konfederacija bei LtMRS veiklos perspektyvos

Vytautas Grivickas Lietuvos medžiagų tyrinėtojų asociacijos prezidentas



Kaunas, Lapkričio 17, 2006



The Federation of European Materials Societies

Networking for European Materials Scientists and **Engineers**

24 European Societies

20,000 Materials Scientists and Engineers

EUROMAT Congress on Advanced Materials and

Processes

Junior EUROMAT conference for the younger

generation

Contributions to European Science Policy Added value for Member Societies

Awards to eminent materials researchers

FEMS Lectures by talented young scientists &

engineers

Job Opportunities

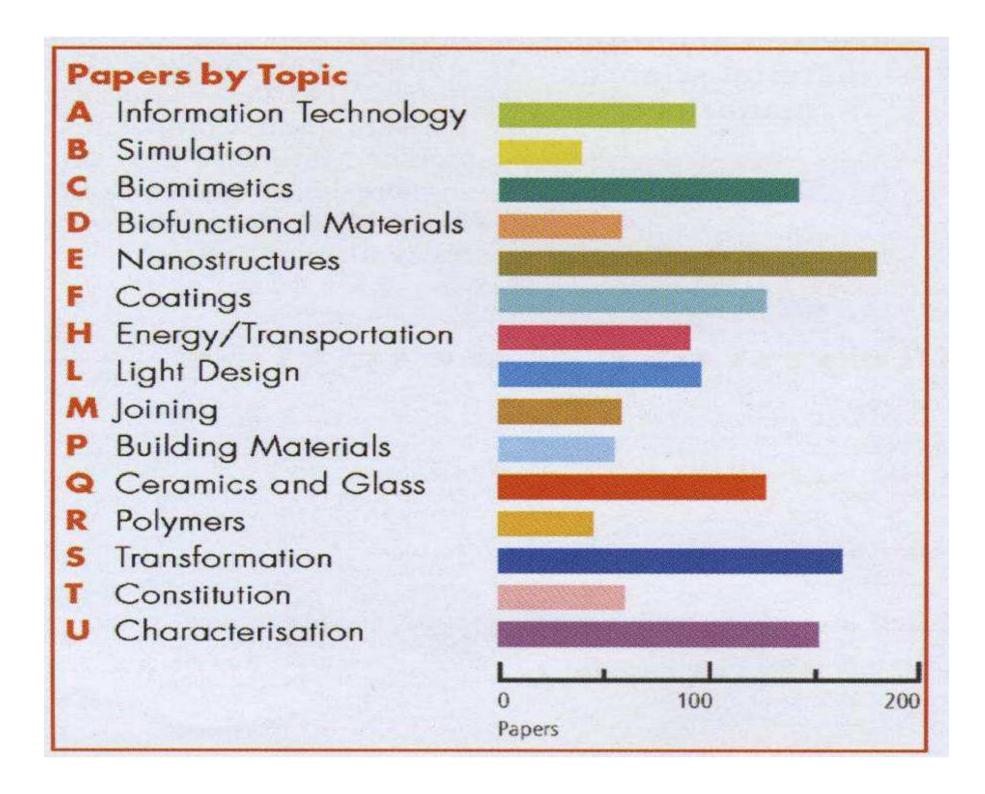
FEMS Newsletter - July 2006 edition available now

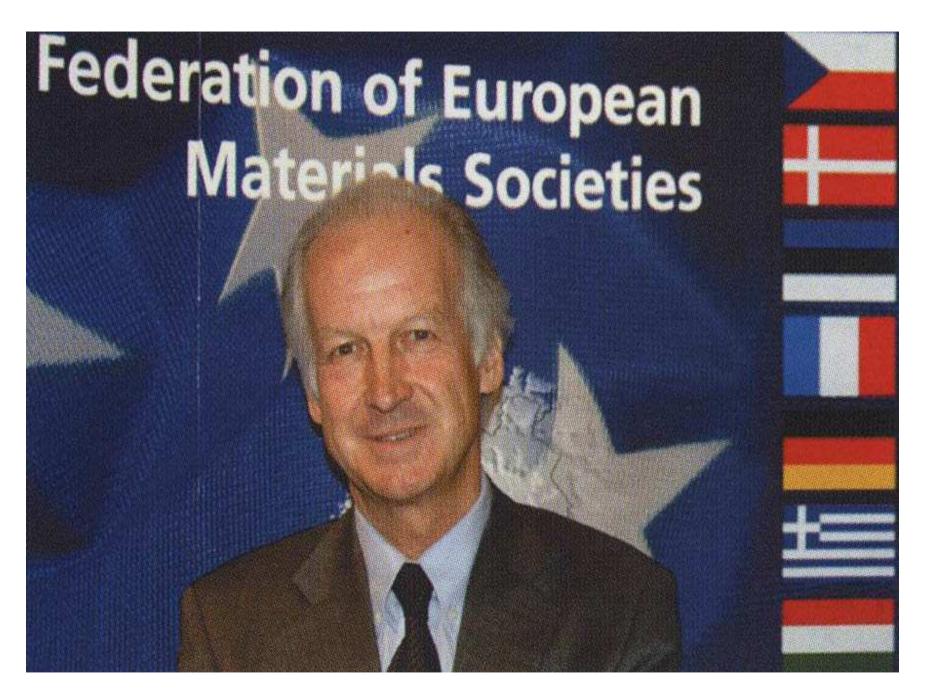


EUROMAT 2003 2005 participants papers authors invited lectures participants from industry countries represented topics symposia parallel sessions

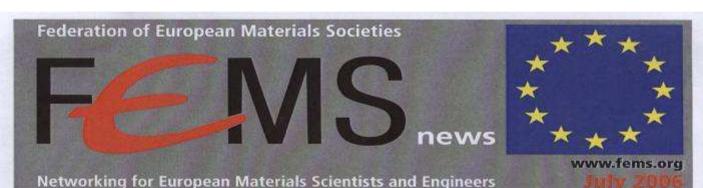
exhibition

short courses





Professor Wlfried Kurz, President of FEMS



Aims for the future:

The President Reveals his Hand

The goal of my two-tion they received. We hope year presidency, to continue this trend in that FEMS offers to its members. This concerns in particular the scientific conferences we organise as well as our lobbying materials community.

EUROMAT conferences. Prague (2005), have grown in success, both in terms of the quality of the scientific programme and the atten-

which began in January, Nuremberg 2007 (see back is to improve the services page). We will aim specifically to draw more people from applied research and industry without neglecting our traditionally strong base in fundamental science. To activities on behalf of the this end, in Nuremberg the conference will be ac-The most recent FEMS companied by an industrial exhibition and symposia in Lausanne (2003) and topics will be chosen ac- the Research Committee cordingly.

The activities in the European Materials Forum in recent months have in-



Robert Singer

cluded a presentation to of the European Parliament in Strasbourg and a visit to Research Commissioner Potocnik in Brussels.

contributed. In the near procure fees, future we will have intenof materials science in this tivities that look very promcontext.

Main topics were the members of FEMS. This is size of the research budget in the interest of the comand funding instruments. munity because it would The now expected increase strengthen our voice. This of EU research funds by is also in the interest of 30 % is a success where we FEMS because it helps to

In my position as presisive discussions with the dent I can build on the research directorate about success of my predecessor, the "European Institute of Professor Wilfried Kurz, He Technology" and the role has launched the EMF acising at present. He has We have recently em- also put FEMS on a better barked on a mission to financial footing by raising pull-in other materials income from conferences

The Event for Younger Scientists and Engineers:

FEMS Junior EUROMAT 2006

FEMS prides itself on As usual, the venue will be PhD degrees, are encourthe support given to UNIL on the banks of Lake aged to give a brief oral the younger members of Geneva in Lausanne. its Member Societies. Foremost is its biannual conference for young scientists and engineers working in the materials field, Junior EURO-MAT.

The brainchild of Peter Schepp, Chief Executive of DGM, the larger of the two FEMS Member Societies in Germany, and a past Secretary of the Federation, it is going to be held for the eighth time this year, on 4-8 September. Peter Schepp

For the third time running, the event will take place as a poster-only conference. However, the authors, most of whom are studying for masters or



introduction to their posters in one of the lecture

Registration fees for students range from about €190 for those from Western Europe down to €140 and €90 for those from Central and Eastern Europe, respectively. Senior academics and industrialists are also welcome to participate and in their case the fees will be in the range €150-300.

Lausanne is a beautiful venue for the meeting and



Prizewinners at Junior EUROMAT 2004

an added attraction is that flavour this year. Well over the local barracks.

have a truly international one.

youth hostel and bed-and- 300 posters will be prebreakfast accommodation sented by authors from are available from about 40 different countries, in-€50 per night, with even cluding China, Japan and cheaper opportunities in USA. The 13 main themes will ensure that there will Junior EUROMAT will be much to interest every-

Lithuania: LtMRS

The LtMRS is a voluntary, non-profit organization uniting individuals and collective members of Lithuania involved in materials science and related applications (established on 1999).

It consist of 130 members including of about 40 graduated students. Following sections have been established: Materials of Electronics and Optics, Construction Materials, Metals and Alloys (thin films), Textile Materials, Polymers and Composites, Active Materials. The acting president before 2006 is Dr. V. Grivickas (see also www.ltmrs.lt).

Austria: ASMET

ASMET – The Austrian Society for Metallurgy and Materials – represents the Austrian manufacturers and processors of metallic materials.

ASMET is composed of roughly 1200 personal members and 70 companies. Scientific work is performed within 25 technical committees, each related to a certain technological field. Our intention is to foster dialogue between producing and processing companies including the final consumer. ASMET was founded in 1925 as "Eisenhütte Österreich" (see also www.asmet.at).

EUROPEAN MATERIALS FORUM (EMF)

European research is going through important transformations:

- 7th Framework Programme on preperation
- European Research Council created

European Materials Societies have to increase their impact in presenting a unique voice of the highly diversified field of Materials to the European Parliament and the Commission. **FEMS** is working with *E-MRS* and others, to build a strong and credible EMF

ADDED VALUE FOR MEMBER SOCIETIES

- The creation of a European Materials forum could play as active role in the long term strategy of European MSE. It could become a transmitter of the opinion of FEMS member societies
- More active contacts with overseas societies is planned (China, Japan, TMS-USA)
- Euromat and Junior Euromat will become even more a platform for international information exchange
- Prizes will become more valuable for member societies (through a higher visibility) The importance of young researches is stressed
- A new website is intended to become more attractive for information flux between members and FEMS
- Database for key people in MSE in Europe, of Materials Departments and Curricula will be established

EUROPEAN MATERIALS FORUM (EMF)

Vision

- stimulate, foster and promote education, research and innovation in materials science and technology
- provide assistance for decision-making in the field of materials science and technology in Europe
- organise and focus European research activities

FEMS CONTRIBUTION FROM MEMBER SOCIETIES (2004)

	MIS CONTRIDUTION FROM MEMBER SOCIETIES (2004)											
		Actual			Actual			Actual				
Country	Society	2002	Fees	Members	2003	Fees	Members	2004	Date of	Fees	Members	Bank
									Payment			Charges
В	BM	500	500	200	500	500	200	500	24/06/2004	500	200	0
CZ	MSS	385	385	154	385	385	154	385	22/07/2004	385	154	0
CZ	CSNMT	205	205	82	198.95	205	82	205	10/02/2005	205	82	0
Den	DMS	670.46	675	270	650	650	260	628.57	05/07/2004	640	256	11.43
Est	EMSS	75	75	30	100	100	40	100	08/02/2005	100	40	0
F	SF2M	2500	2500	1000	2587.5	2587.5	1031	2502.5	23/06/2004	2502.5	1001	0
Ger	DGM	5530	5530	2212	5192.5	5192.5	2077	4837.5	14/07/2004	7837.5	1935	0
Ger	DVM	735	735	294	735	735	294	735	17/06/2004	735	294	0
Gr	HSSTCM	295.5	300	120	300	300	120	300	27/07/2004	300	120	0
Н	OMBKE							222	30/08/2004	227	30	5
I	AIM	2835.5	2840	1136	2811.7	2840	1136	2816.24	22/07/2004	2840	1136	23.76
L	LMRS	202	202	81	202	202	81	202	28/09/2004	202	81	0
Lt	LtMRS	175	175	70	175	175	70	175	05/07/2004	175	70	0
NL	BvM*	2246.37	2250	900	2246.37	2250	900	2245.46	Not known	2250	900	4.54
N	NMS	543.25	550	220	443.95	450	180	440.92	20/07/2004	450	180	9.08
Os	ASMET*	500	500	200	500	500	200	500	Not known	500	200	0
Pol	PTM	400	400	160	500	500	200	500	12/08/2004	500	200	0
P	SPM	395.5	400	160	384.55	400	160	380.34	16/07/2004	400	160	19.66
SK	SNMTS	110	110	44	110	110	44	110	06/07/2004	110	44	0
SL	SDM	368.25	375	150	368.95	375	150	375	23/07/2004	375	150	0
Sp	SEMAT	390	390	156	382.96	387.5	155	350	06/01/2005	350	140	0
S	SFMT	625	625	250	590	590	236	362.5	18/08/2004	362.5	145	0
CH	SVMT**	728.25	745	298	735	745	298					
UK	IOMMM	11,964.66	12,005	12,005	11949.61	12000	12000	11350	11/01/2005	11400	11400	44.56
Total		32379.74	32472	20192	32049.04	32179.5	20068	30223.03		18918	18918	118.03

UPDATED: 10 March 2005

^{*} Paid into Brussels account: date of payment not known

^{**}Resigned 2003

Proposed FEMS Bud Updated 17/08/2005		2005	2006	2006	
INCOME			(approved Ga)	(Proposed)	% of Total
11(001/12	Society Fees		€ 31,338.00	€ 29,000.00	76.6
	EUROMAT		€ 10,000.00	€ 8,000.00	21.1
	Contribtion		C 10,000.00	0,000.00	21.1
	Interest		€ 1,500.00	€ 850.00	2.2
	merest	Overall Total Income	€ 42,838.00	€ 37,850.00	100.0
		Overan Total Income	C 42,030.00	C 57,050.00	100.0
EXPENDITURE	Secretariat	Fees	€ 14,160.00	€ 14,160.00	31.1
		Office Costs	€ 2,840.00	€ 2,840.00	6.2
		Travel, Subsistence and Consumables, including Postage	€ 4,000.00	€ 3,000.00	6.6
		Administration (Brussels)	€ 200.00	€ 200.00	0.4
		Sub-Total	€ 21,200.00	€ 20,200.00	44.3
	Executive Committee Costs	President (Travel & Subsistence)	€ 3,000.00	€ 2,500.00	5.5
		Vice-President (T & S)	€ 2,000.00	€ 1,750.00	3.8
		Past President (T & S)	€ 1,000.00	€ 1,000.00	2.2
		Honorary Treasurer (T & S)	€ 1,500.00	€ 1,000.00	2.2
		Other Committee Expenses	€ 2,500.00	€ 1,750.00	3.8
		Sub-Total	€ 10,000.00	€ 8,000.00	17.6
	Communications	Advertising	€ 1,000.00	€ 750.00	1.6
		FEMS News	€ 4,000.00	€ 3,500.00	7.7
		FEMS Website	€ 4,000.00	€ 4,000.00	8.8
		Webserver Costs	€ 0.00	€ 1,600.00	3.5
		Room Hire in Prague	€ 0.00	€ 0.00	0.0
		Hosting Costs	€ 1,500.00	€ 1,000.00	2.2
		Sub-Total	€ 10,500.00	€10,850.00	23.8
	Interactions	IOMMMS	€ 500.00	€ 500.00	1.1
		European Materials Forum	€ 2,000.00	€ 2,000.00	4.4
	Awards	Prizes & Medals	€ 2,000.00	€ 1,000.00	2.2
	11114140	FEMS Lecturers	€ 5,000.00	€ 3,000.00	6.6
		Sub-Total	€ 7,500.00	€ 4,000.00	8.8
			2 7,200.00	2 1,000.00	0.0
		ING MasterCard Annual Charge	€ 0.00	€ 20.00	0.0
		Overall Total Expenditure	€ 51,200.00	€ 45,550.00	100.0
BALANCE		Expenditure	-€ 8,362.00	-€ 7,700.00	

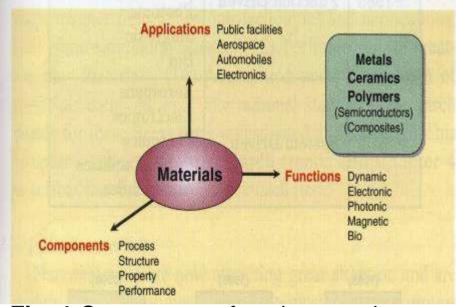


Fig. 1 Components, functions, and application systems of materials

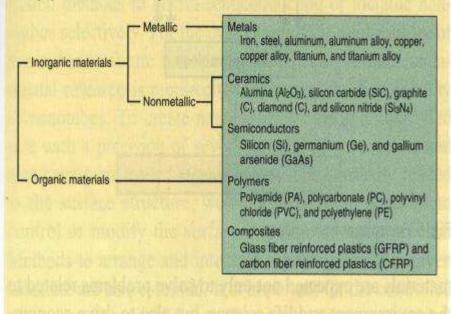


Fig. 2 Classification of materials

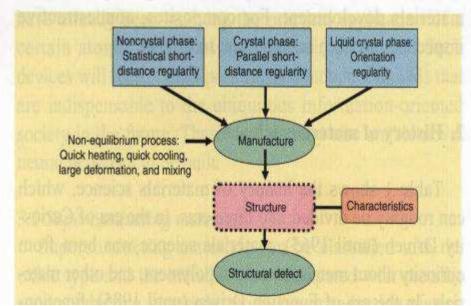


Fig. 3 Materials classification by structure

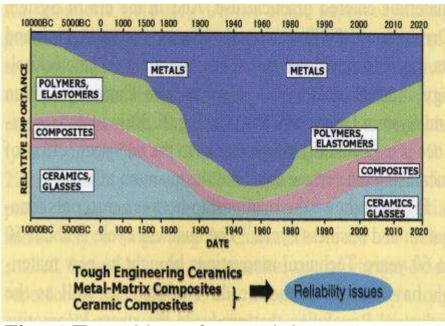
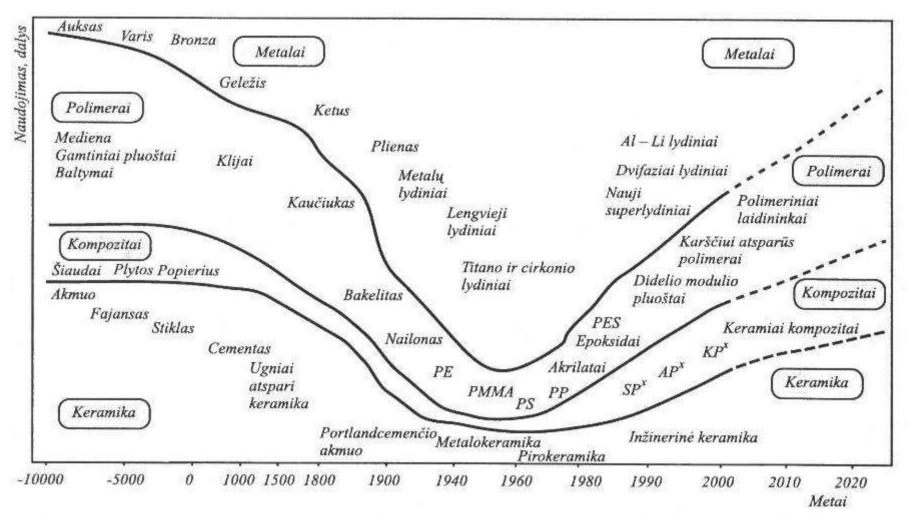
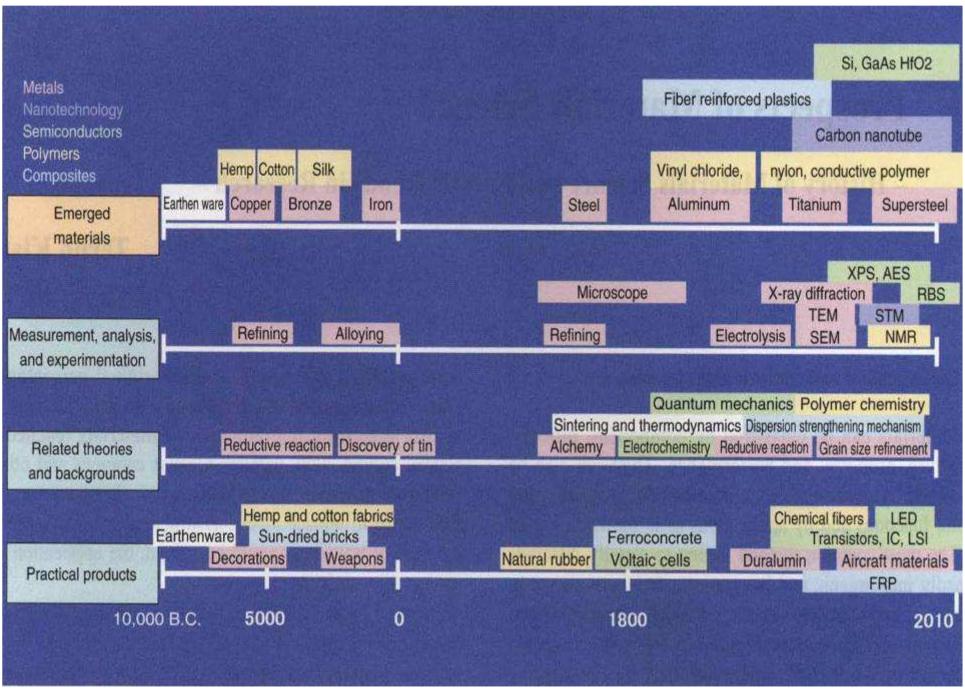


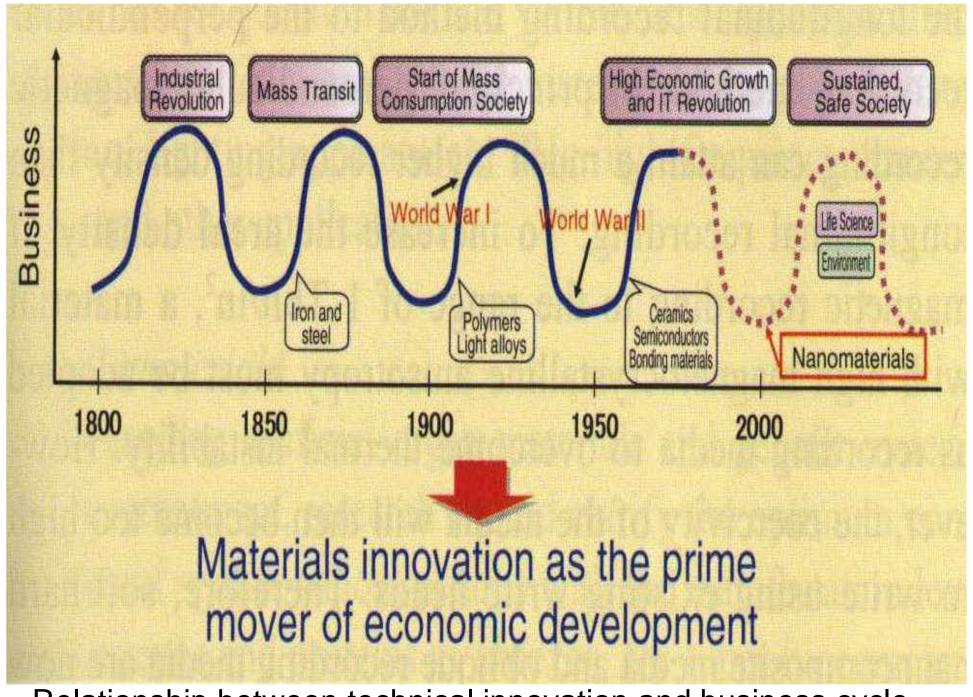
Fig. 4 Transition of materials



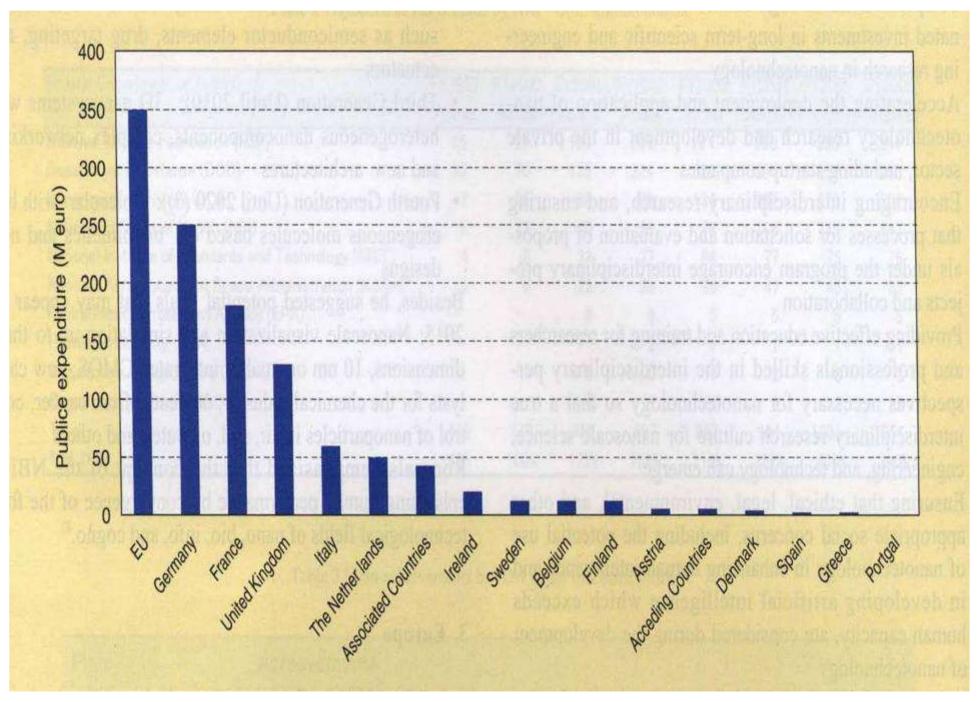
5-1 pav. Pasaulinė konstrukcinių medžiagų naudojimo dinamika. SP* stikloplastikai, AP* anglies plastikai, KP* kevlaro plastikai



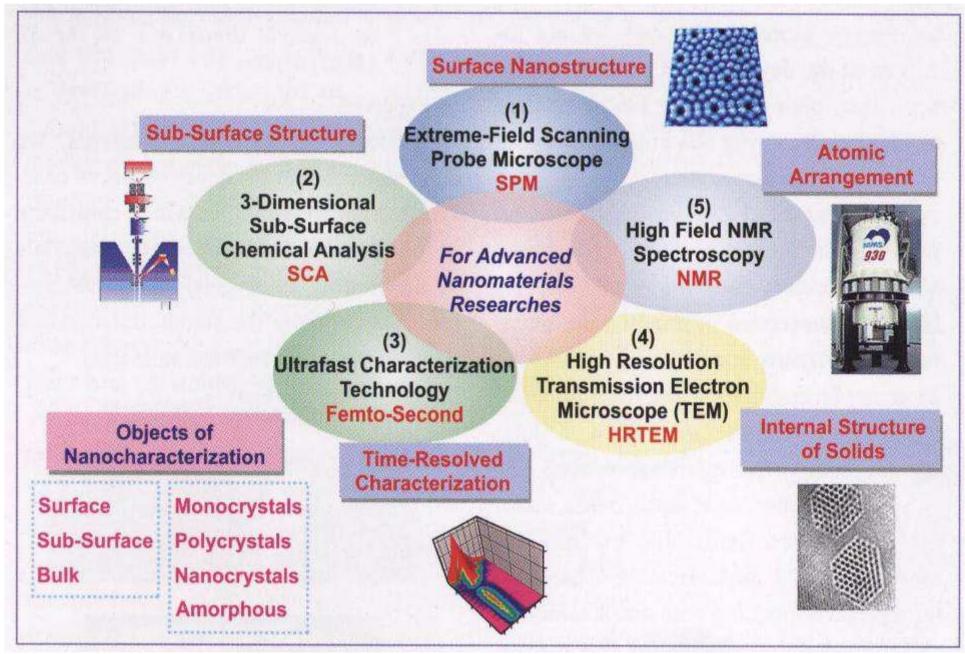
Techniques and theories supporting the transition of materials



Relationship between technical innovation and business cycle



Nanotechnology R&D funds by the EC and European countries (2004) Until: million euros



Development of the state-of-the art technologies for in-depth characterization of nanomaterials