SUNDAY 20 th June	e	
16:00 – 20:00	Registration	
18:00 - 22:00	Welcome party (Wieniawa Restaurant)	
MONDAY 21 st Jur	ne :: Piłsudski Room	
9.20 9.40	Welcome address	
8:30 – 8:40	B. Major Chairman of AMT 2010	
Plenary session	Chairmen: M. Kleiber, T.W. Clyne	
8:40 – 9:20	K. J. Kurzydłowski	
	Modelling of the microstructure and properties in the length scales varying from nano- to macroscopic	
9:20 - 10:00	S. van der Zwaag	
	Routes and mechanisms towards self healing behaviour in engineering materials	
	W. Neumann	
10:00 – 10:40	Advanced microstructure diagnostics and interface analysis of modern materials by high-resolution analytical transmission electron microscopy	
10:40 - 11:10	Coffee break	
Plenary session	Chairmen: M. Kleiber, P.D. Portella	
11:10 – 11:50	Y. Brechet	
11:10 – 11:50	Limits in scale refinement: strain rate sensitivity and work hardening of nanostructured materia	
11:50 - 12:30	Z. Nawrat	
	Robin Heart Progress – Advances material and technology in surgical robots	

Sponsor presentat	Sponsor presentations		
	Chairmen: B. Major, P. Kula		
12:30 - 13:30	FEI, Zeiss, Bruker, Comef, Leica, MTS, CSM, Polish Artificial Heart, Małopolskie Centre of Innovative Technologies and Materials		
13:30 – 14:00	M. Porcu High Resolution (S)TEM on thin films		
14:00 - 15:30	Lunch (Wieniawa and Ziemianska Restaurants)		
Plenary session	Chairmen: P. Kula, E. Ebner		
15:30 – 16:10	F. Bruckert Protein conformational changes induced by adsorption onto material surfaces: an important issue for biomedical applications of material science		
16:10 – 16:40	M. Sanak Assessment of hemocompatibility of materials with arterial blood flow by platelet functional tests		
16:40 - 17:00	Coffee break		
17:00 – 17:30	P. Wilczek Heart valve bioprothesis: effect of different acellularizations methods on the biomechanical and morphological properties of porcine aortic and pulmonary valve		
17:30 – 18:00	R. Major Polish Artificial Heart - new coatings, technology, diagnostics		
19:00	Social event at Czarci Jar Restaurant		

TUESDAY 22 nd June :: Piłsudski Room				
Plenary session	Chairmen: J. Lis, S. van der Zwaag			
8:30 – 9:10	P. Goodhew Materials education: now and in the future			
9:10 - 9:50	T.W. Clyne Development of a ceramic matrix composite with metallic fibre reinforcement			
9:50 – 10:30	H. Bhadeshia Phase transformations contributing to the properties of modern steels			
10:30 – 10:45	Coffee break			
Parallel	Piłsudski Room	Grabski Room		
sessions	Chairmen: J. Kazior, M. Zehetbauer	Chairmen: J. Szawłowski, J. Lackner		
10:45 – 11:00	J. Dembinska New energy efficient magnesium technology for strip production and its potential	J. Lis Synthesis and properties of hot-pressed <i>Ti-Al-C-N materials</i>		
11:00 – 11:15	J. R. Gavarri Electrical and catalytic properties of La_2O_3 - $La_2O_2CO_3$ - $LaOHCO_3$ systems: interactions with CO , CO_2 or CH_4	J. Kusiński Microstructure and properties of laser remelted iron base amorphous coatings		
11:15 – 11:30	P. Scheller Austenitic cast steel with TRIP/TWIP effect	E. Garcia Lecina Structural and physical properties of chromium layers obtained by pulse plating techniques		
11:30 – 11:45	H. Naoi Shape recovery characteristic of ferrous shape memory alloy by prestrain of bioxial stress	E. Wołowiec The application of artificial neural networks in designing single-segment processes of vacuum carburizing		

11:45 – 12:00	W. Wołczyński Ultrasonic method applied to defects identification in the forging ingot	S. Sobieszczyk Improvement of Ti-based materials for alloplastic implants
12:00 – 12:15	V. Leshchynsky Manufacturing powder bearings modified with solid lubricant nanoparticles for high temperature applications	Ch. Klever Development of [FeCoTaN/TaN]n multilayer films for the simultaneous provision of wear protection and soft magnetic properties
12:15 – 12:30	M. Lewandowska Nanomaterials: friends or foes?	J. Dutkiewicz Ball milling amorphisation and consolidation of NiTiZrNb and NiNbTiZrCo alloys
12:30 – 12:45	B. Dubiel Creep mechanisms of single crystalline nickel base superalloys	B. Wendler Low friction and wear resistant MoS ₂ -based nanocomposite coatings
12:45 – 13:00	J. Morgiel Microstructure and hardness of nanocomposite crystalline-amorphous (Cr,Si)N coatings	K. Konopka Nickel aluminate spinel NiAl ₂ O ₄ in Al_2O_3 -Ni composites
13:00 – 13:15		T. Czujko MgH ₂ and intermetallic hydride nanocomposites synthesized by mechanical ball milling
13:15 – 15:00	Lunch (Wieniawa and Ziemianska Restaurants)	
15:00 – 19:00	POSTER SESSION (Kwiatkowski Room) POSTER COMPETITION Chairmen: J. Kusiński, P. Zięba, P. D. Portella, S. van der Zwaag	
19:00 – 19:30	Scientific Committee Meeting (Billiards Room)	
20:00	Conference Dinner (Piłsudski Room)	

WEDNESDAY 23 rd June :: Piłsudski room		
Plenary session	Chairmen: J. Cwajna, P.Goodhew	
9:00 – 9:40	R. Ebner Fatigue damage mechanisms and damage evolution near cyclically loaded edges	
9:40 – 10:20	M. Zehetbauer Bulk nanomaterials getting functional: successes and problems	
10:20 - 10:40	Coffee break	
Plenary session	Chairmen: Z. Nitkiewicz, H. Bhadeshia	
10:40 - 11:20	P.D. Portella Physical metallurgy of single crystalline nickel base superalloys	
11:20 – 12:00	J.M. Lackner Mechanisms for self-assembling topography formation in low-temperature vacuum deposition of inorganic coatings on polymer surfaces	
12:00 – 12:30	R. Lehmann Recent advances in very high resolution imaging materials using novel FIB/SEM detection	
12:30 – 13:00	Closing ceremony B. Major Chairman of AMT 2010	
13:00	Lunch (Wieniawa and Ziemianska Restaurants)	