

# PROGRAM

## INTERNATIONAL CONFERENCE ON APPLIED SCIENCES ICAS2016



Hunedoara, Romania, May 25-27, 2016

Event supported by:



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#### Materials Science Session

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#### Electrical Engineering Session

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#### Video-conference Session

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Zhang Tao, Military Economics Academy of Wuhan

<b>May 25, 2016</b>	
<b>14:00</b>	<b>Registration of participants</b>
<b>20:00</b>	<b>Welcome Reception</b>

<b>May 26, 2016</b>			
<b>8:00</b>	<b>Registration of participants</b>		
<b>9:00</b>	<b>Opening Ceremony (F0-1)</b>	<b>Chairman: LEMLE Ludovic Dan</b>	
		<b>PĂNOIU Caius</b> University Politehnica Timișoara, Romania	
		<b>XI Yang</b> Eurosport DHS S.A. Hunedoara, Romania	
		<b>DUAN Zhiyun</b> Military Economics Academy of Wuhan, China	
		<b>DRĂGAN Florin</b> University Politehnica Timișoara, Romania	
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		<b>ARION Viorel</b> County Municipality of Hunedoara, Romania	
		<b>STĂNESCU Vetuța</b> Hunedoara County Council, Romania	
		<b>LATINOVIC Tihomir</b> University of Banja Luka, Republic of Srpska, Bosnia and Herzegovina	
		<b>PETRESCU Doru Ion</b> CEO Arcelor Mittal, Romania	
<b>9:30</b>	<b>Group Photo</b>		
<b>9:45</b>	<b>Coffee Break</b>		
<b>10:30</b>	<b>Plenary session (F0-1)</b>	<b>Chairman: BORDEAȘU Ilare</b>	
		10:30-11:00	<b>PETRESCU Doru Ion</b> CEO Arcelor Mittal
		11:00-11:30	<b>POPOVICIU Mircea Octavian</b> Academy of Romanian Scientists
		11:30-12:00	<b>ILCA Ioan</b> Academy of Technical Sciences of Romania
<b>12:00</b>	<b>Lunch – Rusca Restaurant</b>		

May 26, 2016		
14:00	Materials Science Session (F1-8)	<p><b>Chairman: ARDELEAN Erika</b></p>
		<p>14:00-14:15  <b>Speaker: Mircea Octavian POPOVICIU</b>  <b>Co-authors:</b> L M Micu, I Bordeasu and C Ghera  <b>Title:</b> <i>Research upon cavitation erosion resistance of X2CrNiMoN22-5-3 stainless steel hardened in different ways</i></p>
		<p>14:15-14:30  <b>Speaker: Ilare BORDEAȘU</b>  <b>Co-authors:</b> M O Popoviciu, L C Salcianu, C Ghera, L M Micu, R Badarau, A Iosif and L D Pirvulescu  <b>Title:</b> <i>A new concept for stainless steels ranking upon the resistance to cavitation erosion</i></p>
		<p>14:30-14:45  <b>Speaker: FLORI Mihaela</b>  <b>Co-authors:</b> V Putan and L Vilceanu  <b>Title:</b> <i>Using the heat flux plate method for determining the heat conductivity of building materials</i></p>
		<p>14:45-15:00  <b>Speaker: SOCALICI Ana</b>  <b>Co-authors:</b> E Ardelean, L Pascu and V Puțan  <b>Title:</b> <i>Experiments on composites meant for making brake pads for the rolling stock</i></p>
		<p>15:00-15:15  <b>Speaker: ANDREI Victor</b>  <b>Co-authors:</b> N Constantin, C Dobrescu and M Hritac  <b>Title:</b> <i>Experimental research on the behavior of the pneumatic transport fine-grained ore</i></p>
		<p>15:15-15:30  <b>Speaker: DRAGOMIRESCU Alina</b>  <b>Co-authors:</b> N Constantin, A Ștefan and V Manoliu  <b>Title:</b> <i>Advanced study of thermal behavior of CSZ comparing with the classic YSZ coating</i></p>
		<p>15:30-15:45  <b>Speaker: CÂNDĂ Letiția</b>  <b>Co-authors:</b> E Ardelean  <b>Title:</b> <i>Preliminary experimental research for silver recovery from radiographic films</i></p>
		<p>15:45-16:00  <b>Speaker: JOSAN Ana</b>  <b>Co-authors:</b> C Pinca-Bretotean  <b>Title:</b> <i>Using the antiadherence paints to manufacturing of the moulds intended for iron castings</i></p>
16:00	Coffee break	
16:30	Materials Science Session (F1-8)	<p><b>Chairman: SOCALICI Ana</b></p>
		<p>16:30-16:45  <b>Speaker: MAGAON Miruna</b>  <b>Co-authors:</b> S Șerban and T Hepuț  <b>Title:</b> <i>Research on the reduction of the hydrogen content in steels treated in vacuum</i></p>
		<p>16:45-17:00  <b>Speaker: ARDELEAN Erika</b>  <b>Co-authors:</b> A Socalici, M Ardelean, S Șerban and M Vătășescu  <b>Title:</b> <i>The analysis of the steel deoxidation process in a vacuum installation</i></p>
20:00	Conference Dinner – Rusca Restaurant	

May 26, 2016		
14:00	Mechanical Engineering Session (F1-10)	Chairman: <b>KISS Imre</b>
		14:00-14:15 <b>Speaker: PEPA Damaschin</b> <b>Co-authors:</b> C Ursoniu, R Gillich and V Campian <b>Title:</b> <i>Water hammer effect to the Francis turbines from hydro arrangements without surge tank</i>
		14:15-14:30 <b>Speaker: URSONIU Cosmin</b> <b>Co-authors:</b> D Pepa, Tufoi and R Gillich <b>Title:</b> <i>The influence of stiffening ribs on the natural frequencies of butterfly valve disks</i>
		14:30-14:45 <b>Speaker: PINCA-BRETOTEAN Camelia</b> <b>Co-authors:</b> A L Crăciun, I D Dragoş and A Josan <b>Title:</b> <i>Tribological properties of nonasbestos brake pad material by using coconut fiber</i>
		14:45-15:00 <b>Speaker: BUDIUL-BERGHIAN Adina</b> <b>Co-authors:</b> T VasIU and C Abrudean <b>Title:</b> <i>Experiments assigned to determine the acceleration of 8000 kn shear laboratory model elements</i>
		15:00-15:15 <b>Speaker: MIKLOS Imre</b> <b>Co-authors:</b> C Alic and C Miklos <b>Title:</b> <i>Dynamic simulation of mechanism, with crossover arms, for window manipulation in the road vehicles doors</i>
		15:15-15:30 <b>Speaker: RAȚIU Sorin</b> <b>Co-authors:</b> V Alexa, I Kiss and V Cioată <b>Title:</b> <i>Experimental determination of the filling coefficient for an aspirated spark-ignition engine</i>
		15:30-15:45 <b>Speaker: ALEXA Vasile</b> <b>Co-authors:</b> S Rațiu, I Kiss and V Cioată <b>Title:</b> <i>Research the distribution torque in symmetrical and asymmetrical rolling process</i>
16:00	Coffee break	
16:30	Mechanical Engineering Session (F1-10)	Chairman: <b>RAȚIU Sorin</b>
		16:30-16:45 <b>Speaker: BIRTOK-BĂNEASĂ Corneliu</b> <b>Co-authors:</b> T Hepuț and S Rațiu <b>Title:</b> <i>Influence of intake air temperature on internal combustion engine operation</i>
		16:45-17:00 <b>Speaker: KISS Imre</b> <b>Co-authors:</b> V Cioată, V Alexa and S Rațiu <b>Title:</b> <i>Investigations on the selection of friction materials destined to railway vehicles applications</i>
		17:00-17:15 <b>Speaker: CIOATĂ Vasile</b> <b>Co-authors:</b> I Kiss, S Rațiu and V Alexa <b>Title:</b> <i>Mechanical and thermal analysis of the internal combustion engine piston using Ansys</i>
20:00	Conference Dinner – Rusca Restaurant	

May 26, 2016		
14:00	Electrical Engineering Session (F1-1)	Chairman: POPA Gabriel
		14:00-14:15 <b>Speaker: ERDEI Zoltan</b> Co-authors: M Horgoş and R Mureşan Title: <i>Frequency behavior of the Residual Current Devices</i>
		14:15-14:30 <b>Speaker: DEACONU Sorin</b> Co-authors: LN Tutelea, G Popa, C Barz and T Latinovic Title: <i>FEM Analysis of an Single Stator Dual PM Rotors Axial Synchronous Machine</i>
		14:30-14:45 <b>Speaker: CUNȚAN Corina</b> Co-authors: I Baci Title: <i>Single-phase Frequency Converter</i>
		14:45-15:00 <b>Speaker: POP-VĂDEAN Adina</b> Co-authors: PP Pop, C Barz and T Latinovic Title: <i>Electromagnetic harvesting as a way to power wireless energy monitoring sensors in the built environment</i>
		15:00-15:15 <b>Speaker: CHIVER Olivian</b> Co-authors: L Neamt, E Pop, M Horgos, Z Erdei, A Pop-Vadean and PP Pop Title: <i>Single-phase PM synchronous motor simulation with Matlab/Simulink</i>
		15:15-15:30 <b>Speaker: CHIVER Olivian</b> Co-authors: L Neamt and E Popa Title: <i>Electrodynamic Forces on the Medium Voltage SF6 Switch Disconnecter Insulators based on FEA</i>
		15:30-15:45 <b>Speaker: PROȘTEAN Gabriela</b> Co-authors: S Volker and A Hutanu Title: <i>Change Management Methodologies trained for Automotive Infotainment Projects</i>
15:45-16:00 <b>Speaker: PROȘTEAN Gabriela</b> Co-authors: S Volker and A Hutanu Title: <i>Impact of agile methodologies on team capacity in automotive radio-navigation projects</i>		
16:00	Coffee break	
16:30	Electrical Engineering Session (F1-1)	Chairman: DEACONU Sorin
		16:30-16:45 <b>Speaker: BADEA Andra</b> Co-authors: G Proștean, M Tămășilă, A Vărtosu Title: <i>Collaborative decision-making on wind power projects based on AHP method</i>
		16:45-17:00 <b>Speaker: RUSU-ANGHEL Stela</b> Co-authors: - Title: <i>Experimental Research on Mathematical Modeling of Clinker Furnace in Cement Plants</i>
		17:00-17:15 <b>Speaker: RUSU-ANGHEL Stela</b> Co-authors: - Title: <i>A New Concept for Reactive Power Compensation in Electric Traction Railway (27 kV, 50 Hz)</i>
17:15-17:30 <b>Speaker: HAȚIEGAN Cornel</b> Co-authors: MD Nedeloni, I Pădureanu, MR Jurcu, S Trocaru, O Bădescu, D Micliuc and L Nedeloni Title: <i>Vibration Analysis of a Hydro generator for different operating regimes</i>		

		17:30-17:45	<p><b>Speaker: HAȚIEGAN Cornel</b>  <b>Co-authors:</b> CP Chioncel, E Răduca, CO Hamat, I Pădureanu, MR Jurcu, D Bordeășu, S Trocaru, O Bădescu and IM Terfăloagă  <b>Title:</b> <i>Determining the operating performance through electrical measurements of a Hydro generator</i></p>
		17:45-18:00	<p><b>Speaker: IAGĂR Angela</b>  <b>Co-authors:</b> G Popa and C Diniș  <b>Title:</b> <i>Experimental analysis of direct current corona discharge</i></p>
		18:00-18:15	<p><b>Speaker: DINIȘ Corina</b>  <b>Co-authors:</b> G Popa and A Iagăr  <b>Title:</b> <i>Analysis of Synchronous and Induction Generators Used at Hydroelectric Power Plant</i></p>
		18:15-18:30	<p><b>Speaker: POPA Gabriel</b>  <b>Co-authors:</b> C Diniș, A Iagăr and I Popa  <b>Title:</b> <i>An Experimental Comparative Analyse Between Three Low Capacity PLCs</i></p>
		18:30-18:45	<p><b>Speaker: POPA Gabriel</b>  <b>Co-authors:</b> I Popa and C Diniș  <b>Title:</b> <i>Considerations on Transducers with Concentric Cylindrical Electrodes Used in a Continuous Measurement of Liquids Level</i></p>
		18:45-19:00	<p><b>Speaker: ANGHEL-DRUGĂRIN Cornelia</b>  <b>Co-authors:</b> M Lolea and S Dzițac  <b>Title:</b> <i>About the assessment of the level at electromagnetic field exposure in the public domain</i></p>
		19:00-19:15	<p><b>Speaker: ANGHEL-DRUGĂRIN Cornelia</b>  <b>Co-authors:</b> M Lolea and S Dzițac  <b>Title:</b> <i>About the assessment of the level at electromagnetic field exposure in the occupational domain</i></p>
		19:15-19:30	<p><b>Speaker: VASAR Cristian</b>  <b>Co-authors:</b> I Szeidert, I Filip and O Proștean  <b>Title:</b> <i>Issues Regarding a Hybrid Micro Grid Laboratory Setup</i></p>
		19:30-19:45	<p><b>Speaker: VASAR Cristian</b>  <b>Co-authors:</b> O Proștean, I Filip and I Szeidert  <b>Title:</b> <i>Experimental Analysis of a Wind Power Generator</i></p>
20:00	<b>Conference Dinner – Rusca Restaurant</b>		



May 26, 2016		
14:00	Computers Engineering Session (F1-2)	<p align="center"><b>Chairman: BARZ Cristian</b></p>
		<p>14:00-14:15</p> <p><b>Speaker: LATINOVIC Tihomir</b>  <b>Co-authors: S Kalabic, C Barz, A Pop-Vadean, PP Pop</b>  <b>Title: Preventive collision neural network sensing system with optimization of processing radar system for the protection of car crash</b></p>
		<p>14:15-14:30</p> <p><b>Speaker: LATINOVIC Tihomir</b>  <b>Co-authors: S Kalabic, C Barz, A Pop-Vadean, PP Pop</b>  <b>Title: Determining the coordinates and location unknown sources radiation EMT method fuzzy three spheres and fuzzy tori</b></p>
		<p>14:30-14:45</p> <p><b>Speaker: JALBA Klaus</b>  <b>Co-authors: M Kaul and R Diekmann</b>  <b>Title: Intelligent clutch control with incremental encoder to improve wear issues of an intercept pendulum in Real Time</b></p>
		<p>14:45-15:00</p> <p><b>Speaker: JALBA Klaus</b>  <b>Co-authors: P Konold, I Rapp and C Mann</b>  <b>Title: Cooperation between humans and robots in fine assembly</b></p>
		<p>15:00-15:15</p> <p><b>Speaker: MOLDOVEANU Alexandru</b>  <b>Co-authors: A Galie, M Moldoveanu, F Popa, E Tica and B Popa</b>  <b>Title: Assessment of small hydropower potential for the Olanesti River using advanced software techniques</b></p>
		<p>15:15-15:30</p> <p><b>Speaker: GHIORMEZ Loredana</b>  <b>Co-authors: O Prostean, M Panoiu and C Panoiu</b>  <b>Title: GUI for Studying the Parameters Influence of the Electric Arc Model for a Three-Phase Electric Arc Furnace</b></p>
		<p>15:30-15:45</p> <p><b>Speaker: GHIORMEZ Loredana</b>  <b>Co-authors: I Baciu</b>  <b>Title: Study for the Electric Arc of Alternative Current at the Single Phase Welding Machine Using the Matlab/Simulink Environment</b></p>
		<p>15:45-16:00</p> <p><b>Speaker: PĂNOIU Manuela</b>  <b>Co-authors: C Pănoiu, L Ghiormez, R Rob</b>  <b>Title: Study about the performances of Artificial Neural Networks used in current prediction of nonlinear loads</b></p>
16:00	Coffee break	
16:30	Computers Engineering Session (F1-2)	<p align="center"><b>Chairman: PĂNOIU Manuela</b></p>
		<p>16:30-16:45</p> <p><b>Speaker: ABRUDEAN Cristian</b>  <b>Co-authors: -</b>  <b>Title: A Practical Implementation of a Keyless Signature Infrastructure System</b></p>
		<p>16:45-17:00</p> <p><b>Speaker: BARZ Cristian</b>  <b>Co-authors: T Latinovic, S Deaconu, D Preradović, P P Pop and A Pop-Vadean</b>  <b>Title: Using PLC Moeller in automation of artesian fountains</b></p>
<p>17:00-17:15</p> <p><b>Speaker: PĂNOIU Caius</b>  <b>Co-authors: R Rob</b>  <b>Title: Programmable Outdoor LED Display</b></p>		

		17:15-17:30	<b>Speaker: ROB Raluca</b> <b>Co-authors: C Pănoiu and O Tirian</b> <b>Title: <i>Temperature Controlling System Using Embedded Equipment</i></b>
		17:30-17:45	<b>Speaker: LUNG Claudiu</b> <b>Co-authors: A Buchman and S Sabou</b> <b>Title: <i>Smart city sensors network based on IoT technology</i></b>
		17:45-18:00	<b>Speaker: LUNG Claudiu</b> <b>Co-authors: I Orha and S Oniga</b> <b>Title: <i>Monitoring system in smart home for daily life assistance</i></b>
		18:00-18:15	<b>Speaker: BERDIE Adela</b> <b>Co-authors: M Osaci and C Barz</b> <b>Title: <i>A datafit approach concerning to the data processing</i></b>
		18:15-18:30	<b>Speaker: MUSCALAGIU Ionel</b> <b>Co-authors: CG Muscalagiu and DM Muscalagiu</b> <b>Title: <i>The curving calculation of a mechanical device attached to a multi-storey car park</i></b>
<b>20:00</b>	<b>Conference Dinner – Rusca Restaurant</b>		

May 26, 2016		
14:00	Fundamental Sciences Session (F0-1)	<p><b>Chairman: JIANG Yiwen</b></p>
		<p>14:00-14:15  <b>Speaker: ERCEG Tamara</b>  <b>Co-authors:</b> D Kojic, N Vukic, V Teofilovic, I Ristic, J Budinski-Simendic and V Aleksic  <b>Title:</b> <i>The catalytic microwave synthesis of biodegradable polyester polyols based on castor oil and l-lactide</i></p>
		<p>14:15-14:30  <b>Speaker: BENEA Laura</b>  <b>Co-authors:</b> -  <b>Title:</b> <i>Capture and storage of carbon dioxide: a method for countering climatic changes</i></p>
		<p>14:30-14:45  <b>Speaker: OSACI Mihaela</b>  <b>Co-authors:</b> M Cacciola  <b>Title:</b> <i>Specific power loss in superparamagnetic hyperthermia for nanofluid versus composite</i></p>
		<p>14:45-15:00  <b>Speaker: JITIAN Simion</b>  <b>Co-authors:</b> -  <b>Title:</b> <i>Ellipsometrical determination of thickness and optical constants during crystals growing</i></p>
		<p>15:00-15:15  <b>Speaker: POPOVICI Petre</b>  <b>Co-authors:</b> S Roşu and M Frăţilă  <b>Title:</b> <i>Atoms as rigid rotor model for nucleus and electrons. Explaining Periodic Table and the anomalies</i></p>
		<p>15:15-15:30  <b>Speaker: POP Paul Petrica</b>  <b>Co-authors:</b> A Pop-Vadean, C Barz and T Latinovic  <b>Title:</b> <i>Transdisciplinary integration and interfacing software in mechatronic system for carbon sequestration and harvesting energy in the agricultural soils for rewarding farmers through green certificates</i></p>
		<p>15:30-15:45  <b>Speaker: DOBRNJAC Sanja</b>  <b>Co-authors:</b> J Penavin-Škundrić and L Vasiljević  <b>Title:</b> <i>Removal of fatty acids by adsorption process</i></p>
<p>15:45-16:00  <b>Speaker: LEMLE Ludovic Dan</b>  <b>Co-authors:</b> FL Pater  <b>Title:</b> <i>On the <math>L^\infty</math>-uniqueness of diffusion operators</i></p>		
16:00	Coffee break	
16:30	Fundamental Sciences Session (F0-1)	<p><b>Chairman: PATER Lucian Flavius</b></p>
		<p>16:30-16:45  <b>Speaker: RODIC Vesna</b>  <b>Co-authors:</b> -  <b>Title:</b> <i>Legislation in the Republic of Serbian Mobbing and Member States of the European Union</i></p>
		<p>16:45-17:00  <b>Speaker: BENEA Marius</b>  <b>Co-authors:</b> OD Benea  <b>Title:</b> <i>The Integration of the Occupational Stress into Organizational Management</i></p>
<p>17:00-17:15  <b>Speaker: JIANG Yiwen</b>  <b>Co-authors:</b> Z Duan, J Zhu and J Yu  <b>Title:</b> <i>An international comparison on the performance of defence expenditure</i></p>		
20:00	Conference Dinner – Rusca Restaurant	

May 27, 2016			
10:00	Video-conference Session (F0-1)	Chairman: MUSCALAGIU Ionel	
		10:00-10:15	<b>Speaker: UNGUREANU Nicoleta</b> <b>Co-authors:</b> V Vlăduț and S Șt Biriș <b>Title:</b> <i>FEM modeling of soil behavior under compressive loads</i>
		10:15-10:30	<b>Speaker: DRĂGHICI Silviu</b> <b>Co-authors:</b> I Hălălae <b>Title:</b> <i>Simulation study of the characteristic functions associated of a LDPC code using Scilab programming environment</i>
		10:30-10:45	<b>Speaker: DRĂGHICI Silviu</b> <b>Co-authors:</b> O Proștean, E Răduca, C Hațiegan, I Hălălae and I Pădureanu <b>Title:</b> <i>Study regarding the evolution density of messages and the characteristic functions associated of a LDPC code</i>
		10:45-11:00	<b>Speaker: DRAGNA Claudia</b> <b>Co-authors:</b> I Ioana and N Constantin <b>Title:</b> <i>EAF Optimal Managing Elements</i>
		11:00-11:15	<b>Speaker: DRAGNA Claudia</b> <b>Co-authors:</b> I Ioana and N Constantin <b>Title:</b> <i>Elements of EAF Automation Processes</i>
		11:15-11:30	<b>Speaker: NEDELUCU Otilia</b> <b>Co-authors:</b> C Salisteanu, B Popa, F Popa, B Salisteanu, C Oprescu and V Dogaru <b>Title:</b> <i>The modified nodal analysis method applied to the modeling of the thermal circuit of an asynchronous machine</i>
		11:30-11:45	<b>Speaker: POPA Bogdan</b> <b>Co-authors:</b> AV Paraschivescu, K Ahmad-Rashid and F Popa <b>Title:</b> <i>Small Hydropower Plant's standardization, between myth and reality</i>
		11:45-12:00	<b>Speaker: POPA Bogdan</b> <b>Co-authors:</b> C Antal, F Popa, M Mos and D Tigan <b>Title:</b> <i>Advanced concepts and solutions for geothermal heating applied in Oradea, Romania</i>
		12:00-12:15	<b>Speaker: LAZĂR Alexandra</b> <b>Co-authors:</b> R Buzduga and N Constantin <b>Title:</b> <i>Comparative analysis of technological options for the aggregate of blowing inert gases into the steel ladle, produced and used in Romania</i>
		12:15-12:30	<b>Speaker: CHIONCEL Cristian Paul</b> <b>Co-authors:</b> GO Tirian, N Gillich and C Hatiegan <b>Title:</b> <i>Overview of the wind energy market and renewable energy policy in Romania</i>
		12:30-12:45	<b>Speaker: CHIONCEL Cristian Paul</b> <b>Co-authors:</b> GO Tirian, N Gillich and C Hatiegan <b>Title:</b> <i>Influence of the solar radiation in the photovoltaic module efficiency. Case study: south west Romania</i>
		12:45-13:00	<b>Speaker: SPUNEI Elisabeta</b> <b>Co-authors:</b> I Piroi and C Chioncel <b>Title:</b> <i>The experimental determination of the luminous flux emitted by a few types of lighting sources</i>
		13:00-13:15	<b>Speaker: UNGUREANU Nicolae</b> <b>Co-authors:</b> C Băbuț and M Ungureanu <b>Title:</b> <i>Research On Fire Hose Couplings Damages</i>
13:15-13:30	<b>Speaker: GHERMAN Laurian</b> <b>Co-authors:</b> M Pearsică, I Cîrciu and C Rotaru <b>Title:</b> <i>Two fluxes multistage induction coilgun</i>		