

Thursday 13.06.2024	
16:00- 18:00	Receiving guests at the Faculty of Building Services Engineering, B-dul 21 Decembrie 1989, nr. 128-130, Cluj Napoca
18:30-21:00	Receiving guests at Wonderland Resort
Friday 14.06.2024	
08:30-10:00	Receiving guests / registration / coffee
10:00-11:00	Conference opening ceremony Aula of the Building Services Engineering Faculty
11:00-11:30	Coffee break
11:30-13:15	Invited speakers Aula of the Building Services Engineering Faculty
	Eng. Alexandra Popovici , Allbim <i>Digital Buildings - Design, build, operate</i>
	Eng. Cristian Bacliu, Manager Engineering at AKA Automotiv <i>AKA Innovations: Engineering Excellence with Cutting- Edge Tools</i>
	Eng. Daniel SOSA, owner of Instal Data Proiect <i>Considerations regarding the BIM designing in building services</i>
	Arch. Zsolt Szeibert co-founder and managing partner at Beyond visual arts <i>Archviz between Art and Advertising</i>
	Prof. Arch. Naomi Ando, Hosei University, Faculty of Engineering and Design <i>Architectural design, drafting and graphic education at Hosei University</i>
13:15-14:30	Lunch
14:30-18:00	Papers presentation / sections
14:30-18:00	<b>SECTION 1: THEORETICAL GEOMETRY AND GRAPHICS</b> Chair: Magdalena Dragović, Liviu Pruna Aula of the Building Services Engineering Faculty, Ground floor
	<b>A CANAL SURFACE CONTAINING FOUR STRAIGHT LINES</b> Hellmuth Stachel
	<b>THE AUTOMATIC GENERATION OF THE CHAMFERED HEXAGONAL PRISM</b> Liviu Pruna, Andrei Slonovschi
	<b>GEOMETRIC CHARACTERISTICS OF THE PORTALS OF THE KATHOLIKA IN THE STUDENICA, SOPOĆANI, AND DEČANI MONASTERIES IN MEDIEVAL SERBIA</b> Magdalena Dragović, Milica Ćirović, Jelena Bogdanović, Aleksandar Čučaković
	<b>CONSIDERATIONS UPON THE TEACHING OF RULED SURFACES WITH DIRECTOR PLANE</b> Delia Drăgan, Adrian Tudoreanu-Crișan, Raluca Nerișanu, Claudia Pondichi-Alb, Dorin Bărbîntă, Alexandra Țiriac
	<b>DESCRIPTIVE GEOMETRY BETWEEN CLASSIC AND MODERN</b> Manuela Nechita
	<b>CONSTRUCTION OF THREE-DIMENSIONAL MODEL OF PLATONIC SOLIDS UTILIZING METATRON'S CUBE</b> Isidora Mitrović, Sonja Krasić, Jovana Tomić, Nastasija Kocić

	<p>TEACHING APPLIED GEOMETRY FOR KEEPING DYNAMIC SAFE FOLLOWING DISTANCE AMONG NOVICE CAR DRIVERS Vadim Nantoi, Daria Nantoi</p> <p><b>EXPLORING DESCRIPTIVE GEOMETRY THROUGH SIMPLE APPLICATIONS WITH TIKZ EUCLIDE: A POWERFUL TOOL IN LATEX</b> Constantin Torcatoru</p>
14:30-18:00	<p><b>SECTION 5: ARCHITECTURAL DESIGN</b> Chair: Laura Patachi Aula of the Building Services Engineering Faculty, Ground floor</p>
	<p><b>A SMALL PLAZA AND A STREETScape IN KUROMON-CHO, PART 2 — TRANSFORMATION OF A PRIVATE SITE INTO A PUBLIC DISTRICT</b> Naomi Ando</p> <p><b>A STUDY ABOUT BUILDING A GARDEN INSIDE A KINDERGARTEN</b> Irina Ignătescu-Manea, Oana Neculai, Ana-Maria Toma</p> <p><b>PRODUCTION OF CITY SCALE-MODELS USING LASER ENGRAVING AND 3D PRINTING TECHNIQUES</b> Tamara Miljkovic, Marko Jovanovic</p> <p><b>PERSPECTIVE OPTICS. VISUAL REPRESENTATION TRANSFORMATION THROUGH THE ARTS</b> Dana Sorina Opincariu, Alina Voinea</p> <p><b>SURVEY OF HISTORICAL HOUSES IN THE ETHNOGRAPHIC MUSEUM OF TRANSYLVANIA "ROMULUS VUIA" CLUJ-NAPOCA</b> Dana Sorina Opincariu, Ana-Maria Graur, Alice Maria Oprică</p> <p><b>ADAPTIVE SHADING ENVELOPE INSPIRED BY THE GEOMETRY OF NATURE</b> Ana-Maria Graur, Georgiana Corsiuc, Carmen Mârza</p> <p><b>GRAPHIC EDUCATION AT THE FACULTY OF ARCHITECTURE AND URBANISM, CLUJ-NAPOCA</b> Ana-Maria Graur, Dana Sorina Opincariu</p> <p><b>APPLICATION OF THE RHINOCEROS SOFTWARE FOR A BETTER VISUAL PERCEPTION OF 3D SPACE IN ARCHITECTURE – BREAK-THROUGH OF SOLIDS</b> Sonja Krsić, Jovana Tomić, Nastasija Kocić, Isidora Mitrović</p>
14:30-18:00	<p><b>SECTION 2: APPLIED GEOMETRY AND GRAPHICS</b> Chair: Marija Obradovic Room 204 - Faculty of Building Services Engineering, Second floor</p>
	<p><b>INFLUENCE OF PARAMETERS OF THE ELECTRO-HYDRAULIC DEFORMING EQUIPMENT ON THE GEOMETRIC CHARACTERISTICS OF WORKPIECE</b> Vanda-Ligia Danaila, Irina Ignatescu-Manea</p> <p><b>INFLUENCE OF DIFFERENT LIVING HINGES GEOMETRIES TO COMPLIANT STRAIGHT LINE MECHANISM TRAJECTORY</b> Boris Kotic, Ana Petrovic, Marija Backovic, Radoslav Surla, Zorana Jeli</p> <p><b>METHODS OF REPRESENTING THE DUCTS OF AIR CONDITIONING SYSTEMS</b> Carmen Marza, Georgiana Corsiuc, Octavian Pop</p> <p><b>GEOMETRIC PROPERTIES AND IDEALIZED MODEL OF THE MONUMENT TO THE FALLEN SOLDIERS OF THE KOSMAJ DETACHMENT</b> Marija Obradović, Anastasija Martinenko, Slobodan Mišić, Nenad Brodić</p>

	<p><b>THE ART OF ORIGAMI PROMOTED WITHIN THE FRAME OF DESCRIPTIVE GEOMETRY</b> Ludmila Sass, Alina Duta</p>
14:30-18:00	<p>SECTION 3: ENGINEERING COMPUTER GRAPHICS Chair: Alina Duță Room 204 - Faculty of Building Services Engineering, Second floor</p>
	<p><b>GEOMETRICAL DESIGN OF GEARS USING MOTION ANALYSIS IN CAD SOFTWARE</b> Jovana Antic, Boris Kotic, Nenad Kolarevic, Dragoljub Bekric</p> <p><b>THE TRANSFORMATIVE IMPACT OF ADVANCED GRAPHICS TECHNOLOGIES AND COMPUTER-GENERATED IMAGERY IN CIVIL ENGINEERING</b> Ioana-Roxana Baci, Liviu Pruna, Andrei Slonovschi, Sebastian George Maxineasa</p> <p><b>STUDY OF THE THERMAL COMFORT IN A REPAIR WORKSHOP</b> Monica-Carmen Bălcău, Iacob-Liviu Scurtu</p> <p><b>THE REVERSE ENGINEERING PROCESS FOR A CHAIN SPROCKET</b> Andrei Corzanu, Valentin Corzanu, Alina Duță, Dragoș Laurențiu Popa</p> <p><b>COMPUTER DESIGN, KINEMATIC ANALYSIS AND 3D PRINTING OF AN EXOSKELETON MECHANICAL SYSTEM</b> Valentin Corzanu, Andrei Corzanu, Simona Mariana Creț, Ionut Daniel Geonea</p> <p><b>THE INCLUSION OF THE STUDY OF 3-DIMENSIONAL MODELING IN THE COURSE OF ENGINEERING GRAPHICS AT TUM</b> Sergiu Dîntu, Angela Șuletea, Alexei Botez, Iurie Melnic, Mihail Crivoi</p> <p><b>ASPECTS REGARDING THE TOP-DOWN DESIGN AND THE TRANSFER OF PROJECTS TO THE BENEFICIARY</b> Adrian Mihai Goanta, Gigel Florin Capatana, Aurora Potirniche, Diana Gina Musca</p> <p><b>AERODYNAMICS EVALUATION OF HIGH-RISE BUILDING</b> Iacob-Liviu Scurtu, Alexandra Daniela Scurtu</p> <p><b>METHODS OF GENERATING AUTOCAD 3D SECTIONS</b> Toma Ana-Maria, Irina Ignatescu-Manea, Neculai Oana</p> <p><b>GRAPHICAL MODELLING OF THE WORM SHAFTS OF SOME MICROMOTORS IN THE AUTOMOTIVE INDUSTRY</b> Georgiana-Alexandra MOROȘANU, Daniela MÂNCILĂ, Mariana ILIE, Silvian BAROIU, Nicușor BAROIU</p> <p><b>INFOGRAPHICS RELEVANT SOFTWARE USED FOR BUILDING SERVICES DESIGN</b> Alina Filip, Silviu Gheorghe, Tarlea Gratiela-Maria</p> <p><b>ENHANCING BUILDING DESIGN AND SYSTEMS THROUGH VIRTUAL REALITY: A COMPREHENSIVE REVIEW</b> Daniel Rusu</p>
14:30-18:00	<p>SECTION 4: INDUSTRIAL AND GRAPHIC DESIGN Chair: George Adir Room 205 - Faculty of Building Services Engineering, Second floor</p>
	<p><b>THE GRAPHIC LANGUAGE OF SIGNS, SYMBOLS, PICTOGRAMS IN A GLOBAL WORLD</b> George Adir, Nicoleta-Elisabeta Pasco, Victor Adir, Gabriel George Geambasu</p> <p><b>LOGO AND THE DESIGN PRINCIPLES</b> Victor Adir, Nicoleta-Elisabeta Pasco, George Adir, Gabriel George Geambasu</p> <p><b>INTEGRATING ARTIFICIAL INTELLIGENCE INTO THE PHOTOGRAPHIC DESIGN PROCESS</b></p>

	<p>Catalina Enache, Narcisa Valter, Felix Raduica, Oana Roxana Chivu  <b>HOW TO ACHIEVE A SENSORY DESIGN</b>  Gabriel George Geambasu, George Adir, Victor Adir, Nicoleta Elisabeta Pascu  <b>AESTHETIC CONSIDERATIONS IN INDUSTRIAL AND VEHICLES DESIGN</b>  Ancuta-Nadia Jurco, Iacob Liviu Scurtu  <b>INTEGRATION OF SENSORY DESIGN IN PRODUCT DEVELOPMENT</b>  Ana-Maria Nicolau, Petruta Petcu  <b>INNOVATION APPROACHES CENTERED ON SENSORY DESIGN. A CASE STUDY.</b>  Ana-Maria Nicolau, Petruta Petcu  <b>DESIGN AND EVALUATION OF A HORSE SADDLE USING CAD SOFTWARE</b>  Călin-Vasile Prodan, Iacob-Liviu Scurtu  <b>DESIGN/REDESIGN IN AEROSPACE LOGO GRAPHICS</b>  Elena Raluca Radu  <b>AESTHETIC APPEAL OF ROBOTIC LIMB INTERACTIONS AND EFFECTS ON DESIGN AND FUNCTION</b>  Florin-Felix Răduică, Ionel Simion, Ana Maria Mihaela Rugescu, Ioana Cătălina Enache, Elena Ioniță  <b>ELECTRIC VEHICLE BATTERY PACK UNDERBODY SHIELD DESIGN AND OPTIMIZATION: A STUDY ON DACIA SPRING</b>  Ioan Szabo, Monica Bălcău  <b>IMPLEMENTING CIRCULAR ECONOMY PRINCIPLES THROUGH A MODULAR TANK DESIGN APPROACH</b>  Anagabriela Deac, Cristina Iacob, Teodor Chira, Andrei Bolboaca, Dan Muresan</p>
14:30-18:00	<p>SECTION 6: TEACHING METHODOLOGY  Chair: Zorana Jeli  Room 205 - Faculty of Building Services Engineering, Second floor</p>
	<p><b>ASPECTS ON APPLYING EXPERIENTIAL LEARNING THEORY IN TEACHING GRAPHICAL SUBJECTS</b>  Ramona Clinciu, Mihaela Rodica Clinciu  <b>TEACHING BASIC ELEMENTS IN DESCRIPTIVE GEOMETRY – LINE INTERSECTING A PLANE</b>  Ramona Clinciu, Mihaela Rodica Clinciu  <b>STUDY ON IMPROVING THE TEACHING METHODS OF GRAPHIC DISCIPLINES AFTER THE PANDEMIC</b>  Irina Ignatescu-Manea, Vanda-Ligia Danaila  <b>BLENDED LEARNING METHODS FOR TEACHING „DESCRIPTIVE GEOMETRY AND TECHNICAL DRAWING</b>  Corina Sosdean, Mircea Voda  <b>WORKING METHODS IN THE SUBJECT OF DRAFTGEOMETRYAND MODELING AT THE AVIATION ACADEMY</b>  Rodoljub Milicevic, Zorana Jeli, Zaga Trisovic, Jovana Antic, Dragoljub Bekric  <b>THE INFLUENCE OF THE PANDEMIC IN THE TEACHING OF GRAPHIC SUBJECTS</b>  Georgiana Corsiuc, Ana-Maria Graur, Carmen Marza</p>
19:00-22:00	<p>Conference dinner at Wonderland Cluj Resort</p>

Saturday 15.06.2024	
10:00-18:00	Excursion