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<td>10:30 - 11:00</td>
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<td>Session</td>
<td>Mechanics and Processing of Discontinuous Fiber Composites</td>
<td>Numerical Modeling and Structural Design</td>
<td>Nano composites</td>
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<td>Chair: Masahito Ueda</td>
<td>Chair: Akinori Yoshimura</td>
<td>Chair: Shu Minakuchi</td>
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<td>11:00 - 11:20</td>
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<td>(1A-01) INTERFACIAL PROPERTIES OF ARAMID NYLON COMPOSITES</td>
<td>(1B-01) NUMERICAL SIMULATION OF TIME-DEPENDENT FAILURE BASED ON</td>
<td>(1C-01) GLASS/EPOXY LAMINATES MODIFIED WITH EDGEFUNCTIONALIZED</td>
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<td></td>
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<td>N. Niamlang (Rajamangala University of Technology)</td>
<td>ENTROPY-DAMAGE VISCOELASTIC-PLASTIC MODEL FOR UNIDIRECTIONAL</td>
<td>GRAPHENE</td>
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<td>In Japan (Kanazawa Institute of Technology)</td>
<td>COMPOSITES</td>
<td>Liwen Wang (Tokyo Institute of Technology), Jonathon D. Tanks, Yoshihiko</td>
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<td>Kazuo Kageyama</td>
<td>Jun Koyanagi (Tokyo University of Science), Mio Sato</td>
<td>Arazo, Masatoshi Kubuchi</td>
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<td>11:20 - 11:40</td>
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<td>(1A-02) EVALUATION OF TENSILE PROPERTIES OF PRESSFORMED</td>
<td>(1B-02) MULTI-SCALE MODELLING OF DAMAGE PROPAGATION IN THIN-Ply</td>
<td>(1C-02) STUDY ON IMPROVEMENT OF INTERFACIAL STRENGTH BETWEEN</td>
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<td>DISCONTINUOUS CFRP PLATES</td>
<td>CFRP LAMINATES</td>
<td>FIBER AND MATRIX RESIN BY GRAFTING CELLULOSE NANOFIBERS</td>
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<td>Makoto Ichiki (Nagoya University), Harutaka Fujimura, Taisei Isogai,</td>
<td>Ryo Higuchi (The University of Tokyo), Ryoma Aoki, Tomohiro Yokozeki</td>
<td>Mouhamadou M. Sarr (Kochi University of Technology), Ikiharou Inoue,</td>
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<td>Mariko Terada, Atsuhiko Yamanaka, Akinori Yoshimura, Masahiro Arai,</td>
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<td>Tatsuro Kosaka</td>
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<td>Hiromichi Shindou</td>
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<td>11:40 - 12:00</td>
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<td>(1A-03) RECLAIMED CARBON FIBER-EPOXY PREPREG FOR DISCONTINUOUS</td>
<td>(1B-03) ELASTIC-PLASTIC FINITE ELEMENT ANALYSIS ON THREE-POINT</td>
<td>(1C-03) THERMO-MECHANICAL PROPERTIES OF ZrO2/Ti FUNCTIONALLY</td>
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<td>FIBER MOLDING COMPOUND</td>
<td>BENDING TESTS FOR THIN-Ply CFRP LAMINATES</td>
<td>GRADED MATERIALS FABRICATED USING VARIOUS CONSOLIDATION</td>
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<td>Benjamin H. Rutz (Toray Composite Materials America, Inc.), Pete George</td>
<td>Masaki Nishikawa (Kyoto University), Kohei Yamada, Satoru Yamamoto,</td>
<td>TECHNIQUES</td>
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<td>Manato Kanesaki, Naoki Matsuda, Kazumasa Kawabe, Masaki Hojo</td>
<td>Hideaki Tsukamoto (Hosei University)</td>
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<td>12:00 -</td>
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<td>(1A-04) MECHANICAL PROPERTIES OF GFRP PLATE FABRICATED BY HAND</td>
<td>(1B-04) NUMERICAL MODEL OF FATIGUE DAMAGE IN COMPOSITE</td>
<td>(1C-04) EPOXY-BASED POLYMER GEL ELECTROLYTE FOR SOLID STATE</td>
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<td>12:20 -</td>
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<td>LAYUP METHOD</td>
<td>LAMINATES CONSIDERING PLY THICKNESS EFFECTS</td>
<td>SUPERCAPACITORS</td>
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<td>12:20 - 13:20</td>
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<td>N. Sugiyama, K. Nishitani, S. Kato (Kyoto Institute of Technology), Y. Fuji, N</td>
<td>Ryoma Aoki (The University of Tokyo), Ryo Higuchi, Tomohiro Yokozeki</td>
<td>B. M. Jung (Korea Institute of Materials Science), S. J. Kwon, J.R. Choi,</td>
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<td>Lunch</td>
<td>O-Charoen, P. Sirisuwan</td>
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<td>13:20 -</td>
<td>14:10</td>
<td>Plenary Lecture (PL-03) Coal to Carbon Fiber — New Perspectives. Brent Strong (Brigham Young University)</td>
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<td>15:00 -</td>
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<td>Coffee Break/Poster Session @Exhibition Room</td>
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<td>15:30 -</td>
<td>15:50</td>
<td>Automotive Applications Chair: Jun Koyanagi</td>
<td>Numerical Modeling and Structural Design Chair: Masaaki Nishikawa</td>
<td>Experimental Characterization Chair: Makoto Ichiki</td>
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<td>15:50 -</td>
<td>16:10</td>
<td>(1A-05) DEVELOPMENT OF HIGH TG THERMOPLASTIC EPOXY RESIN AND IMPACT PROPERTIES OF CFRP USING IT AS THE MATRIX Hirofumi Nishida (Kanazawa Institute of Technology), Kiyoshi Uzawa, Daichi Kaji, Norio Hirayama</td>
<td>(1B-05) PRIMO PREPREG INSERT MOLDING Badin Pinpathomrat, K. Nishitani, G. Fortin, S. Kato, H. Hamada, S. Mathurosemontri, N. O-Charoen (Rajamangala University of Technology Thunyaburi)</td>
<td>(1C-05) EXPERIMENTAL EVALUATION OF GAS PERMEABILITY OF THIN-PLY CFRP LAMINATES UNDER BIAXIAL LOADING Hiroshi Hamori (The University of Tokyo), Hisashi Kumazawa, Tomohiro Yokozeki</td>
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<td>16:10 -</td>
<td>16:30</td>
<td>(1A-06) UNIDIRECTIONAL THERMOPLASTIC COMPOSITES OF GLASS FIBER REINFORCED NYLON 6 FABRICATED BY PULTRUSION MOLDING Supaek Pramoonmak, Ponlapath Tipboonsri, Montip Lowsuriyonta, Jirawat Jai-u, Hirouki Hamada</td>
<td>(1B-06) NUMERICAL STUDY OF CFRP BISTABLE OPEN SECTONAL PARTIAL CYLINDRICAL BEAM Sho Kajihara (The University of Tokyo), Takahira Aoki</td>
<td>(1C-06) IMPROVEMENT OF TRANSVERSE CRACK BEHAVIOR OF CROSS-PLY CFRP PROCESSED WITH NANOSECOND UV LASER PULSES Masahiro Moriyama (The University of Tokyo), Shuntaro Tani, Atsushi Kosuge, Isao Ito, Zhigang Zhao, Takashi Hira, Yohei Kobayashi, Hiroharu Tamanu, Norikatsu Mio, Makoto Kuwata-Gonokami, Junji Yumoto</td>
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<td>Coffee Break/Poster Session @Exhibition Room</td>
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<td>17:00 -</td>
<td>18:00</td>
<td>Plenary Lecture (PL-05) Enhancement of Lightweight Design and Production Processes in Aircraft and Automotive Industry by Advanced SMC Christian-Andre Keun (Comprisetec GmbH)</td>
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### Session 11:00 - 11:20
- **Session Chair:** Ryo Higuchi
- **Topic:** Polymer Matrix Composite 1
  - **Title:** LIGHTWEIGHT CARBON NANOTUBE CONDUCTOR WITH HIGH ELECTRICAL CONDUCTIVITY FOR SCALE-UP MANUFACTURING AND CONDUCTIVE FIBERREINFORCED COMPOSITE APPLICATION STUDY
  - **Speakers:** Songin Zhang (Florida State University), Jin Gyu Park, Nam Nguyen, Claire Jolowsky, Ayou Hao, and Richard Liang

### Session 11:20 - 11:40
- **Session Chair:** Y. Wan
- **Topic:** Textiles and Textile Composite Materials/MMC, CMC, C/C, High-Temperature Applications
  - **Title:** BENDING PROPERTIES OF SQUARE BRAIDED COMPOSITES
  - **Speakers:** M. Kikuchi (Laboratory of Braid and Textile), K. Nishitani, H. Hamada, and M. Ueda

### Session 11:40 - 12:00
- **Session Chair:** Yi Wan
- **Topic:** Automotive Composites 1
  - **Title:** MOLDING MACHINE AND MOLDING TECHNOLOGY FOR COMPOSITE MATERIAL OF SATOH MACHINERY Masaki Ohishi (Satoh Machinery Works Co., Ltd.)

### Session 12:00 - 12:20
- **Session Chair:** Gerhard Ziegmann
- **Topic:** Student Session
  - **Title:** LIGHTWEIGHT CARBON FIBER REINFORCED COMPOSITES FOR STRAIN MONITORING
  - **Speakers:** Sukanta Das (The University of Tokyo), Tomohiro Yokozeki

### Session 12:20 - 13:20
- **Topic:** Lunch
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<tr>
<td>Session</td>
<td>Composite Manufacturing  Chair: Gen Sasaki</td>
<td>Aerospace Application  Chair: Yuichiro Aoki</td>
<td>Automotive Composites 2 Chair:</td>
<td>Student Session</td>
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<td>13:20</td>
<td>(2A-05) MECHANICAL PROPERTIES OF PULTRUDED SQUARE PIPE</td>
<td>(2B-05) LOAD CONTROL OF WING LIFT DISTRIBUTION USING MORPHING WING STRUCTURES</td>
<td>(2C-04) DEVELOPMENT OF CFRP HIGH-CYCLE MOLDING TECHNOLOGY FOR AUTOMOBILE IN KURIMOTO, LTD. Takehisa Fukui (KURIMOTO, Ltd.), Kenichi Horai</td>
<td>Company Introduction 5 (Maruhachi Corporation) Student Presentation (S-22 - S-29) Company Introduction 6 (Shikibo, Ltd..)</td>
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<td>G. Fortin, K. Nishitani, S. Kato, Y. Imai, H. Hamada (Chuo Business Group), A. Memon</td>
<td>Yusuke Tashiro (The University of Tokyo), Tomohiro Yokozeki Masato Tamayama</td>
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<td>13:40</td>
<td>(2A-06) MECHANICAL PROPERTIES OF CFRTP PANEL AND THIN WALLED TUBE MADE BY MIXED USE OF NONWOVEN FABRICS AND CONTINUOUS FIBER MATERIALS Hirohito Hirata (Daido University), Shutaro Machiya, Masafumi Yoshida, Makoto Harada</td>
<td>(2B-06) EFFECT OF LIGHTNING DAMAGE ON THE COMPRESSIVE BEHAVIOR OF CFRP STIFFENED PANELS Toshiki Daicho (Nagoya University), Makoto Ichiki, Atsuhiko Yamanaka, Yoshiyus Hiirano, Takeo Fuyeshara, Koji Sawaki, Masahiro Arai, Toshihiko Ishikawa</td>
<td>(2C-05) CARBON FIBER REINFORCED PLASTICS USING SEMI-AROMATIC POLYAMIDE AND THERMOPLASTIC POLYIMIDE Nobuhiko Matsumoto (Mitsubishi Gas Chemical), Yuki Sato, Toshihiro Motochika, Keisuke Ide, Asami Nakai</td>
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<td>14:00</td>
<td>(2A-07) Puricomat - a low-emission solvent-free material platform enabling high volume production of exterior composite parts Lars Friedrich (Hexion Gmbh), Manuel Seize</td>
<td>(2B-07) LAYERWISE HYBRID LAMINATES FOR LIGHTNING STRIKE PROTECTION Swept Manomaisantiphongk (The University of Tokyo), Tomohiro Yokozeki</td>
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<td>(2A-08) NEWLY DEVELOPED CASTING ALLOYS OF LOW THERMAL EXPANSION FOR CFRP MOLDING DIE Shin Utsumi (National Astronomical Observatory of Japan), Haruhiyo Ohno, Naoki Sakaguchi, Kotaro Ona</td>
<td>(2B-08) EXPERIMENTAL INVESTIGATION OF DEPLOYMENT FORCE OF FOLDABLE SHELL EXTENDIBLE TUBE Yuki Doto (The University of Tokyo), Takahira Aoki, Tomohiro Yokozeki, Akihito Watanabe</td>
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<td>Coffee Break/Student Session @Exhibition Room</td>
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<td>15:40</td>
<td>Plenary Lecture (PL-08) Composites Development for Aero-engines Hideo Morita (IHI Corporation)</td>
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<td>16:30</td>
<td>Plenary Lecture (PL-09) Feature and Recent Trends of Composites Research Performed in Japan Takashi Ishikawa (Nagoya University)</td>
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<td>18:00</td>
<td>Party @ Sanjyo-Kaikan</td>
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<td><strong>Session</strong></td>
<td><strong>8:00 - 8:50</strong></td>
<td><strong>8:50 - 9:00</strong></td>
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<td><strong>Registration</strong></td>
<td><strong>COI-KIT project :The innovative high cycle / continuous forming</strong></td>
<td><strong>Polymer Matrix Composite 2</strong></td>
<td><strong>Automotive Composites 3</strong></td>
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| Chair: Kiyoshi Uzawa | Chair: Tetsuya Morimoto | Chair: | **(SC-01) AUTOMOTIVE COMPOSITE AUTOMATION SOLUTIONS**
| | | | Alexandre Hamlyn (Corolis Composites) |
| **9:05 - 9:10** | **(3A-01) NEW INITIATIVES IN INNOVATIVE MATERIALS AND MANUFACTURING TECHNOLOGIES FOR CONSTRUCTION OF NEXT-GENERATION INFRASTRUCTURE** | **(3B-01) PHENOLIC-MODIFIED POLYANILINE RESIN FOR CONDUCTIVE CFRP COMPOSITE APPLICATION** | **(3C-01) AUTOMOTIVE COMPOSITE AUTOMATION SOLUTIONS**
| Yoshito Sato (Kanazawa Institute of Technology), Junji Tanaka, Kiyoshi Uzawa | Yu Zhou (The University of Tokyo), Tomohiro Yokozeki | Alexandre Hamlyn (Corolis Composites) |
| **9:10 - 9:30** | **(3A-02) PROCESS SIMULATION FOR CONTINUOUS ORGANIC SHEET PRODUCTION PROCESS USING DOUBLE BELT PRESS** | **(3B-02) STRUCTURAL DESIGN OF CORRUGATED MORPHING WING FOR LOAD CONTROL** | **(3C-02) IMPROVING MULTIPLE FILAMENT WINDING TECHNOLOGY**
| Junichi Kitada (Innovative Composites Center), Osuke Ishida, Katsuhiko Nunotani, Kiyoshi Uzawa | Katsuhiko Nunotani, Tomohiro Yokozeki | Tadashi Uozumi (Murata Machinery, Ltd.) |
| **9:30 - 9:50** | **(3A-03) IMPREGNATION AND FLOW ANALYSIS UNDER ROLLERS IN DOUBLE BELT PRESS** | **(3B-03) CHARACTERIZATION OF DAMAGE BEHAVIOR IN THINPLY COMPOSITES WITH VARIOUS PLY THICKNESS UNDER IN-PLANE TENSILE LOADING** | **(3C-03) DEVELOPMENT OF NEW HEAT RESISTANT POLYAMIDE FIBER; PART FIBER**
| Osuke Ishida, Katsuhiko Nunotani, Kiyoshi Uzawa | Kawan Hua (The University of Tokyo), Ryoma Aoki, Yayo Kobayashi, Ryo Higuchi, Tomohiro Yokozeki | Shohei Tsunofuri KURARAY CO., LTD, Ryokei Kajirene (Kajirene Inc.), Keisuke Mitsuro Morita, Natsuki Tsushima |
| **9:50 - 10:10** | **(3A-04) RELATIONSHIP BETWEEN TENSILE PROPERTIES AND FIBER ORIENTATION AFTER PRESS FORMING OF DISCONTINUOUS CARBON FIBER REINFORCED THERMOPLASTIC COMPOSITE** | **(3B-04) EFFECT OF POLYURETHANE DISPERSION AS SURFACE TREATMENT FOR CARBON FABRICS ON CF/PAA COMPOSITES** | **(3C-04) DEVELOPMENT OF COMMINGLED YARN AS PREPREG YARN FOR TEXTILE**
| Takehiro Shirai (Kanazawa Institute of Technology), Kiyoshi Uzawa | Junji Funno (The University of Tokyo), Tomohiro Yokozeki | Yoshio Motoshika (Kajirene Inc.), Keiakue Ide, Mitsuru Takagi |
| **10:10 - 10:30** | **(3A-05) THE STUDY OF CF/CFRTP MOLDING USING IN SITU-POLYMERIZING THERMOPLASTIC EPOXY** | **(3B-05) EFFECTIVE COMPOSITE EDUCATION SYSTEM** | **(3C-05) STRUCTURAL SIMULATION OF CFRP FOR AUTOMOTIVE APPLICATION**
| **10:30 - 10:50** | **Coffee Break @Exhibition Room** | | **(3C-06) SMART SOLUTIONS FOR FUTURE MOBILITY**
| | | Sebastian Grasser (SGL Technologies GmbH) |
| **Session** | **10:50 - 11:10** | **11:10 - 11:30** | **11:30 - 11:50** |
| **COI-KIT project :The innovative high cycle / continuous forming** | **(3A-06) INFLUENCE OF WELDING TEMPERATURE ON ADHESION PERFORMANCE OF CFRP STRAND ROD-SOCKET** | **(3A-07) TENSILE PROPERTIES OF HYBRID RODS AND ROPES UNDER STATIC AND FATIGUE LOADING** |
| Chair: Kimiyoshi Naito | Yuya Takagi (Innovative Composites Center), Katsuhiko Nunotani, Atsushi Hekura, Shiro Noguchi, Nobuki Inui, Tadashi Sakuma, Kiyoshi Uzawa | Kiyomi Naito (National Institute for Materials Science), Hiroyuki Oguma, Jonathon Taniki, Kiyoshi Uzawa |
| | | | | **(3C-07) DEVELOPMENT OF NEW HEAT RESISTANT POLYAMIDE FIBER; PART FIBER**
| | | | | Shohei Tsunofuri KURARAY CO., LTD, Ryokei Kajirene (Kajirene Inc.), Keisuke Mitsuro Morita, Natsuki Tsushima |
| **11:10 - 11:30** | **(3A-07) TENSILE PROPERTIES OF HYBRID RODS AND ROPES UNDER STATIC AND FATIGUE LOADING** | **(3A-08) EVALUATION OF TENSILE STRENGTH AND BOND STRENGTH THERMOPLASTIC FRP RODS IN CONCRETE** | **(3C-08) SMART SOLUTIONS FOR FUTURE MOBILITY**
| | | | | Sebastian Grasser (SGL Technologies GmbH) |
| | | | | DISCUSSION ABOUT FRP FOR AUTOMOTIVE STRUCTURAL PARTS |
| **11:30 - 11:50** | **(3A-08) EVALUATION OF TENSILE STRENGTH AND BOND STRENGTH THERMOPLASTIC FRP RODS IN CONCRETE** | **(3A-09) THE MECHANICAL PROPERTIES OF FRP RODS MOLDED BY ULTRA-HIGH SPEED PULTRUSION** | |
| Atsushi Hekura (Kanazawa Institute of Technology), Shinichi Miyazato | Hisai Ueda (Kanazawa Institute of Technology), Hiroshi Yamashita, Hiroki Matsumoto, Nobuki Inui, Kiyoshi Uzawa | | |
| **11:50 - 12:10** | **(3A-09) THE MECHANICAL PROPERTIES OF FRP RODS MOLDED BY ULTRA-HIGH SPEED PULTRUSION** | **(3A-10) COMPARISON OF FORMING-SIMULATION AND EXPERIMENT FOR THE EASY BEND FORMING OF CFRP** | |
| Hisai Ueda (Kanazawa Institute of Technology), Hiroshi Yamashita, Hiroki Matsumoto, Nobuki Inui, Kiyoshi Uzawa | Katsuhiko Nunotani (Kanazawa Institute of Technology), Kiyoshi Uzawa | | |
**Poster Session**

The Poster session will also be held in Room E at 10:30-11:00 and 15:00-15:30 on Monday September 2 although the poster can be hung to the poster stand during the Symposium period. Please remove the poster after the poster session before closing Room E at 18:00 on Monday September 2.

| PO-01 | DESIGN OF INTERMEDIATE SHAFT USING A CARBON TOW PREPREG COMPOSITES  
Sung-won Yoon (Research Institute of Medium & Small Shipbuilding), Je-hyoung Cho, Jong-rok Ha |
| PO-02 | USING OF NATURAL FIBER/POLY(LACTIC ACID) COMPOSITE FOR INTERIOR DECORATION  
Sumonman Niamlang (Rajamangala University of Technology Thunyaburi), Siripong Ghamkuntod, Norapat Hansriwijit, Jatupon Maneenet |
| PO-03 | TUBE MADE FROM POLY(LACTIC ACID) YARN AND SILK YARN BY FILAMENT WINDING TECHNIQUE  
Natee Srisawat (Rajamangala University of Technology Thunyaburi) |
| PO-04 | DEGRADABLE THERMOSET MATRIX FOR RECYCLING STRUCTURAL POLYMER COMPOSITES  
Jin Woo Yi (Korea Institute of Materials Science), Sang-Woo Kim, Jung Wan Lee, Kang Eun Lee, Moon Kwang Um |
| PO-05 | PREPARATION OF NANO-STRUCTURED MATERIALS FROM NATURAL THAI MINERAL FOR AMERISIUM-241 ABSORBER  
Wissanu Charerntanom (Rajamangala University of Technology Thunyaburi), Sorapong Pavasupree |
| PO-06 | POWER CONVERSION PROPERTY TEST METER OF THE DIGITAL TV ANTENNA  
Amnoiy Ruengwaree (Rajamangala University of Technology Thunyaburi), Watcharaphon Naktong, Sarin Chanramard |
| PO-07 | DESIGN OF ENERGY STORAGE SYSTEM OF LIGHTWEIGHT ELECTRIC VEHICLE FOR ELDERLY SOCIETY  
Thanat Jensanyayut (Rajamangala University of Technology Thunyaburi), Krischonme Bhumkittipich, Sumonman Niamlang, Tetsunori Haraguchi, Hiroyuki Hamada |
| PO-08 | SIMPLE LIGHTWEIGHT STRUCTURE DESIGN OF SMART ELECTRIC VEHICLE FOR ELDERLY SOCIETY  
Thanat Jensanyayut (Rajamangala University of Technology Thunyaburi), Pimnapat Bhumkittipich, Krischonme Bhumkittipich, Anin Memon, Tetsunori Haraguchi, Hiroyuki Hamada |
| PO-09 | MECHANICAL STRENGTH OF FINGER ADHESIVE JOINT ON COMPOSITE LAMINATES  
Ryota Iwai (Meiji University), Shun Okamoto, Sunao Sugimoto, Yutaka Iwahori |
**Student Session**

Students have 5min presentations in the Room D on September 3. The Student poster session will also be held in Room E (Exhibition Room) on Tuesday September 3. The poster schedule is as follows.

10:15-11:00 S-01 to S-011, 14:40-15:40 S-12 to S-29

Please remove the poster after the poster presentation on Tuesday September 3.

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