





| S8th Annual ASC International Conference Hosted by Georgia Tech and Kennesaw State University Paper Schedule | | | | | | | | | | | | | |
|--|--|---|---|---|--|--|--|--|--|--|--|---|--|
| Thursday, April 21, | y, April 21, 2022 Track Construction Eduation Moderator Soowen Chang | | | New and Current To | achnologies in Construction | PM and C Mingsi | | Construction Workforce and C | Organizational Management Mosier | Pai | Quality Management Shah | Centennial | |
| | Location | Session 1 in I Integration of a UAS- Photogrammetry Module in a | Highlands Gilles Albeatra, Masoud | Session Production Viable Additive | 2 in Buckhead | Mingsi Session 3 in h | | Session 4 in Benefits of Multicultural Project Team Setting: | inman Park | Session 5 in Li | ttle Five Points | | |
| | | Technology-based Construction Management | Gheisari and Raja R. A. Issa | Manufacturing Alternatives In Comparison to Traditional Construction Methods | Dekate Ball and Patrick Swermann | Using Historical Bid Data for Enhanced Conceptual Estimating | Ahmed Abdelaty, Kevin Nessalhauf and Nothan Munie | Wews of Professionals in the Ghanaian Construction Industry | Ernest Kissi, Frasper Baban-Ayeng and Amma Kyewaa Agyekum | "Fatal Four" Fatalities Investigated by OSHA in 2019 | James Jenkins | | |
| 01:30 PM 02:30 PM | | Integrating Learning Management Systems and Faculty Performance Evaluation for Continuous Program Assessment and Improvement | Jacob Assile and Kelly Strong | A Taxonomy-based Approach to Analyse the impacts of Automation on Human Workers' Qualifications | Xi Chen and Mohammod Sheigi | E-procurement Practices in The U.S. Construction Industry | Ammar Altarrad, Hasseb Akbar, Ibukun Assolusi and Siyuan Song | Evaluating Various Job Functions to Map a Typical Career Path in the Roofing Industry | Jason Lucas, Dhavel Gajjar, David Davis and Georgia Loadholt | Safety Considerations to Operate Drones on Construction Sites | Mohammad Khalid, Mastaja Namian and Amin Akhnoukh | Region 8 Meeting | |
| | | Enhancing Student Learning Experience by Incorporating Virtual Reality Into Construction Safety and Risk Management Class | Payam Bokhshi, Afshin Pourmokhtarian, Benjamin Everett and Zach Bonnon | Single Image based Volume Extimation for Dump Trucksin Earthmoving using Machine Learning Approach | Mercan Deniz, Faria Allam, Chemri Ywan, Hoo Sang Ko and H. Felix Lee | Empirical Analysis of Lump Sum Pay Item Prices for Highway Projects | Minsoo Bask, Mingshu Li and Baabak Ashuri | Distinguishing Human Factors of Top-Performing Project Managers in the Sheet Metal and Air Conditioning Trades | Omer Maail, Bries Lines, Amiral Shahwari, Joke Smithwick and Renneth Sullivan | Perceptions for Disaster Preparedness in Historic Houses of Worship | Sondeep Longar, Anthony Vannette and Angela Lombordi | | |
| 02:30 PM 02:45 PM | Track | Construction | Eduation | New and Current To | Networking Break echnologies in Construction | PM and C | antrols | Construction Workforce and C | Organizational Management | Buckhead Cr Health, Safety, and | | | |
| | Moderator Location | Ben Far Session 6 in I | rrow Highlands | Session | deep Langar 17 in Buckhead | Eunhwa Session 8 in F | Yang Iome Park | Kasim Ko Session 9 in | | Ennis Session 10 in L | | Centennial | |
| | | Session 6 in 1 Effectiveness of Computer Models on Learning Outcomes in a Dyniemics Course – A Pilot Study Mands-On Approach to Teaching Construction | Arup Bhottocharya and Ehson Mousavi Herman Burge II, Bryon Bloom and Anthony Perrensud | Real-time Construction Inspection in an Immersive Environment with an Inspector Assistant Robot Peature Engineering for development of a Machine | Srijeet Halder and Kereshmeh Afsori Ashit Horode, Walid Thabet and | Empirical Analysis for Modeling Spatial Variation in Right of Way Acquisition Durations Evaluation of the Engineering and Design | Frederick Chung and Boobak Ashuri Ajay Jadhas, Dennis Bousman and | Differences between Job Roles in the Speciality Trades: Alturnan Factors Approach Strategic Imperatives of Soft Skills Training and Development; An exploratory investigation into | Omer Maali, Brian Lines, Amirali Shahwani, Jake Smithwick and Renneth Sullivan Sonya Meekel and Earnen Kirke | Risk Aralysis of Occupational Heat-Related Illness Physiological Metrics across | Pelyl Lyu, Siyuan Song and Precious Watts Sreemola Majumder, Caroline Clevenger, Mootassem | | |
| 02:45 PM 03:45 PM | | Teaching Construction Materials and Methods: A Case Soudy Assessing Virtual Learning | Perrencod Janet Campbell, Bradley Benhart, Stephen Austin, | Learning Model for Clash Resolution Implementation of Laser Scanning | Fernanda Leite | Scope of Services for State DOT Infrastructure Projects | Ehson Mousevi | Development; An exploratory instrumenting and Development; An exploratory instrumenting that the key factors influencing soft skills training and development participation and decision-making | | Construction Activity | Clevinger, Mootosem Abdolloh, Mohdi Ghafrori and Mack Russell Fahim Ridwan Nobil, Mostafa | Education Committee Meeting | |
| 03:45 PM 04:00 PM | | Assessing Virtual Learning Environments (VLE) for Construction Management Education | Benhort, Stephen Austin, Amela Bagdanovic and Andy Reid | and Photogrammetry in the US Commercial Building Sector | All Karbailahvasi, Svetlana Olbina and Jonathan Elliott Networking Espak | Construction Project Level-based Environmental, Social, and Governance (C-25G): A Review | Sungjin Kim and Scowon Chang | Post-COVID Analysis on Workplace Design and Trend | Erin Middleton, Chengyi Zhang, Bryan Dyer and Sevilay Demirkesen | COVID-19 Vaccine Acceptance Among Construction Workers Buckhood Co | Pahim Ridwan Nobil, Mostofa Namisa Ph.D., Jerry Shukes, David L. Batie Ph.D. and M. K. S. Al-Mihdawi | | |
| | Track Moderator | Construction Ece Erdo | gmus | Rod | echnologies in Construction olfo Valdes | PM and C Svetlana | Olbina | Construction Workforce and C Md Hasibul R | nasan rahat | Contracting, Project De Minsc | n Baek | Centennial | |
| | Location | Session 11 in Assessing Industry Estimating Software Utilization Practices | nightands | Session The Impact of Virtual Construction Field Trips on | 12 in Buckhead Andrew Kline, Joseph Cleary and Scott | Session 13 in | Home Park Tomera McCuen, Somik Ghosh and | Session 14 in Evolution of Patterns in Inclusion, Diversity, Equity, and Accountability (IDEA) and Race, | Inman Park Heung Jin Ob. Seved Moham Shahandashti | Session 15 in L Integrated Project Delivery for | ittle Five Points | | |
| 04:00 PM 05:00 PM | | to Improve Construction Education A Review and Comparison of Associated Schools of | Wesley Collins and Lauren Redden Luciona Debs, Fernando Ramero Maraes and Brad Benhart | Construction Fleid Trips on Students' Perceptions in Commercial Construction Adaptation of Autonomous Vehicles into Highways and Roads: Michigan Case | Andrew River, Joseph Cleary and Scott Kelting Resim Karkmaz and Hyun Koo | Impact of CDVID-19 on Construction Project Performance in the US A Review of Genetic Algorithm as a Decision-Making Optimization Tool in Project Management | Olaseji Fasalaja Chinedu Okonisso, Richard Gazza. | Ethnicity, and Language (REAL) in Construction Job Market using Web Scraping and Test Mining Techniques Women in the Construction Industry Preferences to Working in the Field vs. in the Office | and Boobak Ashuri Charner Rodgers, Brandi Williams, Yujin Kim | Integrated Project Delivery for Mechanical Contractors Project Delivery Method for Facility Condition Assessments – A Study of Industry Practices by | Matthew Berrows and Kevin Grosskopf Derek Hillestad, Kenneth Sallivan, Kristen Hurtado, Steven Ayer and Jake Smithwick | | |
| | | Construction (ASC) Capstone Course Content | Brad Benhart | Michigan Case | | Project Management | Talio Sulberen and Ibukun Awalusi | to Working in the Field vs. In the Office | and Eunhwa Yang | A Study of Industry Practices by AEC Service Providers | Steven Ayer and Jake Smithwick | Faculty and Career Development Committee Meeting | |
| | | Do High Impact Educational Practices Translate to Peak Learning Moments? An Introductory Study of Student Experiences in the Built Environment | C. Ben Farrow, Tom Leathern, Eric M. Wetzel, Kendall Mcgoey and Katle Boyd | Distance Discrepancies in T-LIDAR, Point-Cloud Models Georeferenced via RTX and Static GNSS | Gustavo Maldonado, Usman ibrahim, Roger C. Purcell, Soonkie Nom and Marcel Maghlar | Situational Impact on Leadership Styles with Emerging Construction Managers | Anthony Perrensud and Meagan Patterson | Mental and Physical Health for Construction- related Employees: Effects of Work from Home (WTH) and Demographic Indicators | Mangyue Wu, Xingahou Guo and Yunfing Chen | A Comparison of Contract Requirements for Design Professional Liability Insurance in Design-build Highway Projects | Jung Hyun Lee and Boabak Ashuri | | |
| Friday, April 22, 202 | Track | | | Constru | oction Eduation | New and Current Techno | ologies in Construction | PM and 0 | Controls | Contracting, Project De | livery, and Legal Issues | Centennial | |
| | Moderator Location | | | Ahm Session | ed Abdelaty 16 in Buckhead | Mohamma Session 17 in | d Ilbeigi Home Park | Pardis Pishd Session 18 in | ad-Bozorgi Inman Park | Jung H Session 19 in L | yun Lee ittle Five Points | Cantennial | |
| | | | | Sustainability and Resilience Education Framework for Interdisciplinary Course Development | Mahammed Hashem M. Mehany and Shantonu Kumar | Productivity Analysis of Multi-Story Structures: Mass Timber Versus Cast-in- Place Concrete | Anthony Mirondo and Lameck Onsarigo | Blockchain Applications through the Lens of Project Managers | Speed Rokooel and Alireza Shojael | Time, Cost, and Construction Intensity Comparison between Design-Manufacture-Construct and Traditional Design-Bid-Build Delivery Methods | Yikuan Peng and Jeffrey Kim | | |
| 08:45 AM 09:45 AM | | | | Case Study: Development and Implementation of a Programmable Assessment Matrix | Francois Jacobs, Rensing Lu and Andrei Zadoroshnyi | Smart Cities' Strategies for Contractors: A Thematic Analysis of Selected Documents | Emad Nojmi Serooghi and Tomera McCuen | Success factors in the implementation of flow acheduling | Thab Steed | Delivery Method for Rapid Bridge Construction | Khalid Siddiqi and Misikir Menglitu | Teaching Workshop Committee Meeting | |
| 09:45 AM 10:00 AM | | | | Assessment of the Relationship between Ethical Decision-Making and Human Dimensions of Construction Students | Rebecco Kassa, Omar Masil, Brian Lines, Jake Smithwick and Kenneth Sullivan | Eco-efficient Construction: The Utili zation of Nanotechnology and 3D Printing in the Sustainable Building Practices of the AEC Industry | Janey O'leary, ibukun Awalusi, Ammar Alasrrad and Chukusuma Ningli | Case Study: Construction Site Utilization Planning for Custom Multifarelly Residential Developments | Armin Seadation and Svetiene Olbina | b-dbox (7) | | | |
| | Track Moderator | HgNa | inds | Construction Eduation Jung Hyun Lee | | New and Current Technologies in Construction Raymond J Godfrey | | PM and Controls Ibukun Aworlusi Sessing 27 in Internal Bark | | Construction Education - Administration Frederick Chung Session 23 in Little Five Points | | Centennial | |
| | Location | | | Session Student Perceptions of Construction Scheduling Teaching | 20 in Buckhead Andrew Kline and Steven Ayer | Session 21 in Conscious Intelligent Buildings: Envisioning the Next Generation of | Home Park Pordis Pishdod-Gozorgi and | Session 22 in A Model for Delay Analysis Impact at Planning Phase of Oil & Gas Pipeline Projects | Inman Park Rej Sheh, Layth Kreidi, Wilfred Matipa and Flone Borthwick | Session 23 in L The Early History of Undergraduate Construction | Richard Burt | | |
| 10:00 AM 11:00 AM | | Educational Activity: Proco Management Softwa Education (Presented by I Impart Sonzialist Procore | re: Incorporating Project are in Construction Kevin Moll oy, Sr. Social Technologies and Resea | Methods Immersive Virtual Field Trips with Virtual Reality in Construction Education: A Pilot Study | Yupeng Luo, Wei Wu, Gustovo Morains and Einaz Mohammadiyaghini | Smart Buildings Unmanned Aerial Systems in the U.S. Construction industry: Exploratory Study on Current State of Practice | Qinghoo Zeng Spoorthy Venkatesh Probash, Cavaline Clevenger and Manideep Tammalapudi | Pression to a use repense projects Assessing the effectiveness of Constructivism and Trensformational Leadership on STEM/TEXS through a Construction Summer Experience | Tulio Sulbaran and Sandrep Longer | Education in the United States COVID-19 and the 2021 ASC International Conference: Opportunities and Challenges Ahead | C. Ben Forrow and Blake Wentz | Marketing Committee Meeting | |
| | | Management Software in Construction Equation (Presented by New Molloy, 55. Social Impact Specialist, Procere Technologies and Bryan Matone, Adjunct Faculty, Clemson University). | | Initial Perceptions of Remote Virtual Inspections in the Residential Construction Industry Sector | Ryle Morse, Stary Kalegraff and Andrews Aline | A Step Towards Automated Tool Tracking on Construction Stee: Boston Dynamics SPOT and RPID | Eric M. Wetzel, Muhammad Limer, Will Richardson and Justin Patton | | | | | | |
| 11:00 AM 11:15 AM | Track Moderator | Highla | ints | | Networking Break action Eduation | Sustainability & Energy Efficier | ncy in the Built Environment | Construction Manideep Tu | n Eduation | Buckhead Co AEC M | otionea laterials dk Chung | Centennial | |
| | Location | | | | eline Stephens 24 in Buckhead | Raymond J Session 25 in | Home Park | Session 26 in | | Session 27 in L | | Contains | |
| | | | | Integrating Virtual Reality (VR) Into Construction Engineering and Management (CEM) Courses-A Case Study | Ri Na, Dyala Aljagaub, Ryan Webber and Edgar Small | Barrier to the use of Sandbug Material Technologies as a Sustainable Affordable Housing Solution: Perspectives from South Africa | Johnson Adetooto, Abimbola Windopo and Francesco Pomponi | Relationship between Undergraduate GPA and Associate Constructor (AC) Exam Scores of Construction Management Students Influence of Pedanosical Assent Delctic Gentures | Joel Was, Robert Ries, Sollie Schattner and Ion Flood | BIM for Fast-track Construction under COVID-19 Circumstances: A Comparative Case Study in the African Context Review of Building Renovation | Manane Boshmoud, Dalila Loudyl and Solman Asher | | |
| 11:15 AM 12:15 PM | | Educational Activity: Res Environment (Presented by Dr. Tom Leatham (Aubu (Auburn) and Dr. Dani | ality Capture for Built y D. Russell Gentry (GT), irn), Prof. Junshan Liu ielle Willkens (GT)) | Pragmatic Development of a Cybersecurity Module for Construction Education | Kenneth Sands and Min Jae Suh | Energy and Cost Comparison of Building Cooling Systems CO2eo Comparison Between a Light | Sonjeev Adhikari and Parker Gordy | Influence of Pedagogical Agent Delctic Gentures on Construction Management Students Learning within a 360-Degree Virtual Field Trip | Jing Wen, Shrishall Zafake and Masoud Ghelseri | Raview of Building Renovation Materials for Structural and Non- Structural Components | Chengcheng Too, Soowon Chang and Pedro Fernándes- Cabán | Research Committee Meeting | |
| | | | | The Role of Self-Determination Theory within a Redesigned Construction Management Technology Curriculum | Ramyani Sengupta and Anthony E. Sparkling | COZEQ Comparison between a Light Gauge Steel Framing Structure and a CMU Structure for Single Family Residential Projects in Costa Rica | Radrigo Altmann, Bolivor Seniar, Rodolfo Valdes-Vasquez and Rebecca Atadero | | | | | | |
| 12:15 PM 02:00 PM 02:15 PM | 2:00 PM | Lunch Keynote (speaker: Sh | annon Lightfoot, McCarth | hy) Paper and Poster Awards | Networking Screen | | | | | Midtown Burkhood Co | n II erismoa | | |
| 02.00 FM 02:15 PM | Track Moderator Highlands | | inds | Constru | Networking Break action Eduation eev Adhikari | Sustainability & Energy Efficiency in the Built Environment Heung Jin Oh Session 29 in Home Park | | Health, Safety, and Quality Management Mingsalu Li Session 30 in tennan Park | | Buckhaad Gradenza AEC Materials Frederick Chung Session 31 in Little Five Points | | Centennial | |
| | Location | | | Session Effectiveness of Collaborative | 28 in Buckhead Euysup Shim, Frederick Adamako and | Session 29 in A Comparative Life Cycle Assessment Study of Wood and Steel Materials on a | Home Park Bin Bi, Zhili Goo and Abdulasis | Session 30 in Construction Worker-Drone Safety Training in a | Inman Park Jiwa-Yao Cheng, Edwardo Lunardini Silva | Session 31 in L Detection of Alkali-Silica | ittle Five Points Amin Akhnoukh and Adithya | | |
| 02:15 PM 03:15 PM | | Educational Activity: By Ti Check; Preparing graduate technological career in A Join McCarthy Buildines | as for a rapidly evolving AEC: Panel Discussion | Learning in a CM Flipped Online Course: A Case Study Effectiveness of the Synchronous Online Flipped Classroom on Students' Learning During the COMD-19 Pandemic | Eugrap Shim and Sundeep Inti | ytuny or woo and yeter leatermis on a Virtual Office Building at the Project End- of-Life Stage A Post Construction Evaluation of Long- term Success in LEED-certified Residential Communities | Bonowi Sonowi Mohsen Goodarsi and George Berghorn | Construction Worker - University Training in a 360 Virtual Reality Environment: A Pilot Study Efficacles of Different Modes of Disseminating Construction Safety Training | Mendes, Masoud Ghelsori and Idris Jeelani Mendes, Masoud Ghelsori and Idris Jeelani Matthew Reyes, Somik Ghosh and Seida Mohammed | Reactivity using Field Exposure Site Investigation The Effects of Partial Replacement of Sand by Recycled Plastic on Concrete Properties | Amazi Al Shenawa, Metin Ogurment and Isalah Akinkusmi | Industry Relations Committee | |
| | | Lightfoot, along with this Building Solutions and Const host Eddie Campbell, and Ti and Georgia Tech alum | e COO of Accelerated truction Brothers Podcast frimble building scientist Hariharan Natarajan | Analysis of Learning Outcomes of a Baccalaureate Degree Program in Construction Management | Alahnu Subedi | Roof Design Efficiency for Energy Consumption in Residential Units | Marcel Maghiar, Keerton Akshor, Gustavo Maldonado and Clinton Mortin | | | | | Meeting | |
| | | | | | | | | <u> </u> | <u> </u> | | | | |
| 03:15 PM 03:30 PM | Track Moderator | | | Constru | Networking Break action Education Hine Stephens | Sustainability & Energy Efficier Jishnu S | ncy in the Built Environment ubedi | Health, Safety, and Q Heung | uality Management tin Oh | Buckhead Cr | idinza | Centennial | |
| | Location | | | | 32 in Buckhead Ywan San, Gilles Albeaina, Masoud Ghelseri and Ricardo Eirls | Jishnu S Session 33 in Use of Pulverized Recycled Glass in Concrete | Warren Plugge | Health, Safety, and Q Heung Session 34 in Impact of Covid-19 on Construction Industry 4.0 Adoption and Implementation | Inman Park Sonjeev Adhikari, Gregory Joyner, Rochel Mouler and Sandeep Langar | | | | |
| 03:30 PM 04:30 PM | Group & Papers | | Integrating Technology Adoption Theories into the Construction Management Education: A Pilot Study | Xi Wang and Sogand Masanzadeh | Using Plastic Wastes in Construction: Opportunities and Challenges | Md. Nasibul Hoson Robat, Dr. Carol Massarra and Dr. George C. Wang | The Effects of COVID-19 on the Safety Procedures of Construction Workers: A Survey | Ammor Alzarrad, Haseeb Akbar, Ibukun Awalusi and Siyuan Song | - | | International Development Committee Meeting | | |
| | | | | | | Assessing the Structural properties of the Sandbag wall for alternative housing construction | Abimbola Windapo, Nicholas Jarrat, Johnson Adetooto, Francesco Pompari and Fidelis Ensure | | | 1 | | | |
| 04:30 PM 05:30 PM | | | | | Networking Break | | | | | Buckhead Cr | edenza | | |