Tuesday, July 30th
Pre-conference Sessions
(paid registration required)

7:30 AM - 5:00 PM   **Registration** *Capital Ballroom Prefunction*

7:30 AM - 8:30 AM   **Breakfast** *Capital Ballroom E*

8:30 AM - 10:00 AM   **Location Services: Optimizing your Facilities Utilization Based on Assets and Personnel Locating Devices** *Capital View North*

Taylor Breihan, Global Business Development Manager, Location Services, HID Global

Description - There is a growing need for increased, real-time visibility into the most important areas of the organization's operations across multiple locations or a specific area – people, property and assets. Organizations juggle to balance employee retention and satisfaction through ensuring the building operates more efficiently without compromising security. Increasingly, companies seek to embed trusted identities deeper into everyday activities to create a positive working environment, improve building governance, and ensure optimum efficiency.

Bio - Taylor has over 10+ years of vertical market experience with a global responsibility for HID Real Time Location Services (RTLS). Focusing on vertical markets such as K-12, Healthcare, Manufacturing Taylor has extensive experience in solving end user needs around personal location and asset tracking technologies.

8:30 AM - 10:00 AM   **Autodesk / CADD Micro - BIM Two-Part Series: Part 1: Classify, Part 2: Validate** *Capital View South*

T.J. Meehan, Vice President of Technology Solutions, Professional Solutions Group, CADD Microsystems, Inc.

Description - Building on the recent webinar of the same name and last year's "Year of the Deliverable" series, this session will focus on the Autodesk Classification Manager for Revit tool and how to properly use it to better classify the elements in a Revit model.

Bio - As an expert and thought leader in the AEC industry around BIM and FM, T.J. assists architects, engineers, contractors, and building owners with successfully implementing efficient workflows with regards to design, build, and operate.

10:00 AM - 10:30 AM Switch Break

10:30 AM - 12:00 PM FM:Systems The Future of Smart Campus Buildings and Integrated Campus Workplace Solutions *Capital View North*

Brian Haines, VP of Strategy, Strategy, FM:Systems

Description - Explore how emerging sensor based smart campus technologies can be coupled with data analytics, sophisticated data science and machine-learning algorithms to enable organizations to better understand how their staff, faculty and students are interacting with your campus environment. We will discuss the benefits and limitations of different occupancy utilization tracking methods, along with the hurdles when deploying IoT based smart campus solutions including utilizing IWMS to turn vast volumes of data from multiple sources including sensors, BIM and GIS into actionable intelligence to help you manage your campus portfolio more efficiently.

Bio - Brian has 20+ years experience managing software products specifically created for the building industry. Brian is the VP of Strategy at FM:System's where he develops product strategy and provides key insights into the future of our industry.

10:30 AM - 12:00 PM AutoDesk - Leveraging Your Models for Technician Wayfinding and Work Order Management *Capital View South*

Mark Mergenschroer, Customer Success Engineer, Autodesk

Description - In this LIVE demonstration, you will learn how to turn your Revit floorplan into a map. Learn from Mark Mergenschroer, Autodesk's Customer Success Engineer, about hot to convert your building information models to indoor maps to get more value from them. This class will show how to use a Revit floor plan in Autodesk's BIM 360 Ops to show technicians the location of the nearest tickets as well as directions to an asset. Managers can view open tickets as a heatmap. This technology uses the building's existing wi-fi infrastructure and does not require new hardware. We will show how it can be extended to track mobile assets with iBeacons.

Bio – Mark is entering his 24th year in the industry and has recently moved into the role of Customer Success Engineer for the Autodesk BIM 360 Ops Software. He is focused on new and improved ways for a Facility Manager to maintain the operations of a building for its lifecycle. Mark has shared his MEP BIM knowledge at events such as Autodesk

University, BIM Forum, BILT NA, AHSE, FIATECH, ASHRAE, Children's Hospital Association Forum and to numerous Revit User Groups.

12:00 PM - 1:00 PM   Lunch *Capital Ballroom E*

1:00 PM - 2:30 PM   **IMAGINiT - Improve Work Order Management with Model Data** *Capital View North*

Peter Costanzo, Director of Facilities Management, Facilities Management, IMAGINiT
Mark Mergenschroer, Customer Success Engineer, Autodesk

Description - Mark Mergenschroer, Autodesk's Customer Success Engineer, and Peter Costanzo, IMAGINiT Director of Facilities Management show how you can use Revit floor plans in Autodesk's BIM 360 Ops to determine the location of nearest tickets and directions to an asset. You'll also see how managers can view open tickets as a heatmap, and how the system can be extended to track mobile assets with iBeacons. Using existing wi-fi, BIM 360 Ops doesn't require additional hardware, but allows you to convert information models to indoor maps.

Presenter Bios -
Peter has worked in IMAGINiT's Facilities Management group for over 15 years and has held progressively larger roles within the division. Peter's unique blend of experience in hardware, software, mobility platforms, building information modeling and facilities management applications allows him to work with clients to craft solutions that meet both current and future facility management needs.

Mark is entering his 24th year in the industry and has recently moved into the role of Customer Success Engineer for the Autodesk BIM 360 Ops Software. He is focused on new and improved ways for a Facility Manager to maintain the operations of a building for its lifecycle. Mark has shared his MEP BIM knowledge at events such as Autodesk University, BIM Forum, BILT NA, AHSE, FIATECH, ASHRAE, Children's Hospital Association Forum and to numerous Revit User Groups.

1:00 PM - 2:30 PM   **Planon - Smart Campus: An Integrated and Connected Environment** *Capital View South*

Jay Shah, Solutions Consultant/Product Liaison, North America at Planon
Jennifer Fittz, Business Manager, Higher Education at Planon

Description - This session will explore several topics around creating an integrated and connected campus. Let's talk about the data you have and the data you want to capture.

How are your IoT initiatives affecting how you manage your campus? How can you use that data for better analytics? Join us to explore how all these initiatives help you create the innovative and connected environment you want to create inspiring spaces for your students, faculty, and staff.

Presenter Bios-
Jay has been working within the integrated workplace management system (IWMS) space for eight years with expertise in the higher education industry. As a Senior Solution Consultant at Planon, Jay is responsible for understanding customer requirements and delivering tailored solutions. As the Product Liaison for Planon NA, Jay is responsible for identifying areas for enhancement within the product and communicating it to the Planon product development board.

Jennifer is the Business Manager for Higher Education at Planon. Previously, Jennifer worked within Higher Education as a Business Systems Analyst.

2:30 PM - 3:00 PM   **Switch Break**

3:00 PM - 4:30 PM   **AutoCAD Tips and Tricks! with Lynn Allen** *Capital View North*

Lynn Allen, Global Technoligy Evangelist

Description - If you want a plethora of power user tips then be sure join popular *Cadalyst* video tipster, author, and CFTA'19 keynote, Lynn Allen, as she takes you through a whirlwind of productivity techniques that are certain to improve your everyday drawing life. Lynn will introduce you to some of the lesser known AutoCAD features used by CAD Gurus that will help remove the tedium and boost your ability to meet project deadlines.

Bio - In her 20-year career as Technology Evangelist, Lynn Allen has spoken to more than a half million professionals at events in over 50 countries throughout the world. Her online presentations and videos have easily reached over five million people over the years. For over 20 years she wrote a column for *Cadalyst* magazine and is the voice behind the popular *Cadalyst* videos – "Tips and Tricks with Lynn Allen". A sought-after public speaker with a unique comedic style, Lynn served as the Emcee/Host of Autodesk University, a 10,000 person event, for over 10 years and is always one of the highest rated speakers at multiple design and software events. Her passion and strength is connecting with people and shining a light on new technology. The author of three technology books, Lynn has over 21,000 followers on Twitter with over a quarter million

impressions every month. She has received numerous awards for her contributions to the Design and Technology communities. Lynn has also provided the keynote at many STEM conferences and is very focused on showing our youth they can positively change the world through technology.

3:00 PM - 4:30 PM   **Esri - ArcGIS Indoors: Enable, Engage, & Empower Students, Staff and Visitors at Your Campus** *Capital View South*

Patrick Wallis, Indoors and Facilities Practice Lead, Esri

Description - Join Patrick Wallis, Indoors and Facilities Practice Lead at Esri, about how ArcGIS Indoors can bring value through better user experiences and increased productivity at your campus. ArcGIS Indoors is a complete system for indoor mapping, creating a connected campus environment. It enables students, staff, and visitors to share a common understanding of their campus environment and gain immediate access to the identity, status, and location of the resources supporting these same activities - while also providing wayfinding, routing, and location sharing to everyone on campus.

Bio
Pat Wallis, AICP, GISP, Assoc. AIA, LEED AP has led Esri's indoor practice since 2011. He develops the methods and processes to create and use indoor location information to meet the needs of employees, visitors, students, and business operations worldwide. More recently, Pat worked as a senior asset manager for the United States Coast Guard, overseeing a real estate portfolio of over 4,000 assets totaling more than 8.6 million square feet, with a value exceeding $3 billion.

5:30 PM - 7:30 PM   **Welcome Reception** *The SideYard*

Networking, Light Hors d'oeuvres, Bar

CFTA'19 Agenda

Wednesday, July 31st

7:00 AM – 5:00 PM   Registration *Capital Ballroom Prefunction*

7:00 AM - 8:00 AM   Breakfast *Capital Ballroom D-H*

7:00 AM - 8:00 AM   First Time Attendee Meet-Up

A new event for 2019 offering new CFTA conference attendees a meet-and-greet opportunity, as well as an overview of the event from experienced conference attendees and CFTA Leadership. *Reserved Area in Ballroom D-H*

8:00 AM - 8:25 AM   Presidential Plenary *Capital Ballroom D-H*

Michelle Ellington, FIS Manager, Facilities Information Services, University of Kentucky

Michelle Ellington is a Facilities Information Services Manager for the University of Kentucky. She is President of the Campus FM Technology Association and an evangelist for implementing process improvement strategies for effective change management.

8:25 AM - 8:30 AM   Local Host Opening Remarks *Capital Ballroom D-H*

Sue Stewart, Senior IT Manager, Technology Resources, University of Texas Austin

Sue Stewart heads the Location Information Services section of Technology Resources at The University of Texas at Austin. She has spent the last 12+ years providing spatial support for planning, energy, and facilities efforts at UT Austin.

8:30 AM - 9:15 AM   Featured Keynote: Lynn Allen *Capital Ballroom D-H*

Lynn Allen, Technology Evangelist

Description - CFTA is pleased to welcome Lynn Allen as the 2019 CFTA Conference Featured Keynote. In her 20-year career as Technology Evangelist, Lynn Allen has spoken to more than a half million professionals at events in over 50 countries throughout the world. Her online presentations and videos have easily reached over five million people over the years. For over 20 years she wrote a column for *Cadalyst* magazine and is the voice behind the popular *Cadalyst* videos – "Tips and Tricks with Lynn Allen". A sought-after public speaker with a unique comedic style, Lynn served as the Emcee/Host of Autodesk University, a 10,000 person event, for over 10 years and is

always one of the highest rated speakers at multiple design and software events. Her passion and strength is connecting with people and shining a light on new technology.

Bio - The author of three technology books, Lynn has over 21,000 followers on Twitter with over a quarter million impressions every month. She has received numerous awards for her contributions to the Design and Technology communities. Lynn has also provided the keynote at many STEM conferences and is very focused on showing our youth they can positively change the world through technology.

9:15 AM - 9:30 AM   Switch Break

9:30 AM - 10:15 AM   Scope and Scale: Condition Assessment Innovation and Justifiable Capital Plans *Capital Ballroom A*

Steven Warshaw, CEO, Executive, Intellis

Description - How can an organization make conditions assessments more accurate, determine scope and budget of plans and projects? How can it balance transparency and efficiency, while setting priorities and showing traceability to deficiencies? Learn how a school district overhauled its conditions assessments, project management, and capital planning, leading to justifiable plans and funded improvements. We'll show you how every educational institution can benefit from their lessons learned.

Bio - Steven Warshaw is CEO of Intellis and an expert in the field of mobile computing with over 20 years of experience building software and mobile applications. Mr. Warshaw has a BS/ MS from Columbia University Fu Foundation School of Engineering.

9:30 AM - 10:15 AM   Leveraging GIS to Organize Your Campus Facilities Information
Capital Ballroom BC

Stu Rich, CTO, Customer Advocacy, PenBay Solutions,

Description - Facilities information is produced by many different groups across campus. They each have their own business cycles, source systems, and formats. Luckily, we can use location to organize this information and make it available in combination with other data securely in the context of business-focused apps. The open and interoperable nature of GIS makes it an ideal systems integration platform. Learn best practices from practitioners with many years of experience.

Bio - Mr. Stu Rich is the Chief Technology Officer of PenBay Solutions with more than 20 years of experience developing innovative GIS systems. Stu leads the technology team responsible for bringing PenBay's InVision product suite to life.

9:30 AM - 10:15 AM   The University of Tennessee's Road to BIM *Capital View North*

Maria Isabel Martinez, GIS Manager, University of Tennessee

Description - The University of Tennessee Knoxville is in the process of adopting BIM as a tool to improve our project documentation, as-built records, and facility management. We have spent last two year consulting with other Universities that have successfully implemented BIM at their institutions to create our own BIM Implementation Plan. Our vision is to integrate BIM with current GIS practices to create a 3-D representation of campus for better decision making, and understanding of campus' needs.

Bio - Maria graduated with a B.S.from the University of Florida and a M.S. in Geography from the University of Tennessee. She has 17 years of experience using GIS tools and was recently thrown into the world of BIM to start this process for Facilities Services at the University of Tennessee.

9:30 AM - 10:15 AM   Change is Good: The Journey of One Facilities Management Department *Capital View South*

Pamela Locke, Facilities Information Systems Coordinator, Facilities Information Systems, UMass Lowell

Description - UMass Lowell is currently going through many changes in their FM Department. Hiring a Document Manager, the implementation of E-Builder, upgrading their Campus Viewer, as well as implementing new tools for things such as key requests. Concurrently, the FIS Team continues to advance the use of GIS to support data collection and visualization, decision making, and public outreach. Strategies, lessons learned, and how FIS has helped departments along this journey will be discussed.

Bio - Pamela Locke is the FIS Coordinator at UMass Lowell. She received her undergraduate degree in Geography from Clark University and her Master's Degree in GIS from Pennsylvania State University. She is also the 2019 President of NEURISA.

10:15 AM - 10:45 AM Business Partner Networking *Capital Ballroom D - H, Ballroom Foyer*

Attendees are encouraged to spend time with exhibitors to network and learn about offered solutions.

10:45 AM - 12:00 PM Spark Session *Capital Ballroom D - H*

CFTA Business Partners offer rapid fire style presentations on their solutions to provide an overview of the beneficial products and services they offer.

12:00 PM - 1:00 PM Lunch, CFTA Election *Capital Ballroom D - H*

During lunch, CFTA Leadership will conduct a special meeting to vote for the 2019-2022 CFTA Director, Julius Paulo, GIS Coordinator, Office of Systems Integration, University of Hawai'i.

1:00 PM - 1:45 PM STAR Partner - Planon Blue Ribbon Panel *Capital Ballroom D - H*

Moderator:
David Karpook, VP of Operations, Planon

Panel:
Fred Guelen, President of North American Operations, Executive, Planon
Larry Barkley, Managing Partner, Executive, Barkley Consulting Group
Gretchen Tucker, Facilities Information Services, University of Kentucky

Description - What makes up a Campus of the Future? Who uses it? And what technology tools will the real estate and facility management teams need to provide the right experience for a campus of the future? Planon has brought together a team of experts in the higher education field from across the United States to discuss just that. These panelists represent some of the brightest and most enthusiastic minds in the facility management and real estate world of Higher Education. They bring years of expertise and leadership to this important discussion. The goal of the Blue Ribbon Panel is to: together, define the minimum set of requirements necessary within a campus management software solution to support the users of the smart campus of the future.

Moderator & Presenter Bios:
David Karpook is the VP of Operations for Planon Corporation, a leading provider of technology solutions for facility management and real estate. A 25-year industry veteran, he has been a customer, vendor, system implementer, trainer and strategist,

managing workplace technology projects in North America, Europe, the Middle East and Africa.

Fred Guelen is the President of North American Operations for Planon Corporation, a global real estate and facilities management software company. He brings more than 25 years of legal, financial, entrepreneurial and management experience. Prior to joining Planon, Fred was one of the founding partners of the international law firm Buren van Velzen Guelen (BVVG). He has extensive knowledge and experience managing complex (cross border) mergers & acquisitions, private equities, restructuring and financing projects. Fred Guelen studied law at the University of Leiden and the University of Amsterdam.

Larry Barkley is currently is the Managing Partner for The Barkley Advisory Group, LLC a facility management and real estate consulting services company, which provides technology and management advisory services to real estate and facility management professionals of global 1000 companies, higher education, healthcare, corporate and government large portfolio occupiers.

Gretchen Tucker currently serves as a Technical Administrator for Facilities Information Services (FIS) Geospatial Services Area at the University of Kentucky. She is responsible for many areas including maintaining floor plan geospatial libraries, dissemination of space data related to the floor plans, and the Facilities Library hardcopy and electronic collections. Gretchen facilitates collaboration throughout the entire Geospatial Services team to provide geospatial products and university-wide solutions.

1:45 PM - 2:15 PM **Business Partner Networking** *Capital Ballroom D - H, Ballroom Foyer*

Attendees are encouraged to spend time with exhibitors to network and learn about offered solutions.

2:15 PM - 3:00 PM **Document Management's Role in a Digitally Connected FM Organization** *Capital Ballroom A*

Lorena Griffin, Facilities Information Services Manager, Facilities Information Services, Michigan State University
Kendra Schroeder, Document Management Administrator, Facilities Information Services, Michigan State University
AriAnne Gilliland, Process Analyst, University of Colorado Boulder

Description - We will discuss why document management should be a part of your FM organization's overall digital strategy. We will show examples of DM supporting GIS and spatial data revisions, how aligning and leveraging IWMS data within your DM solution can increase the information available through mobile technology. Utilizing DM, in addition to, and strategically with the rest of your digitally connected FM solutions can increase your organizations overall operational efficiencies.

Presenter Bios:
Lorena Griffin is the Facilities Information Services Manager at Michigan State University managing facilities information such as facility and asset data, operational floor plans and the document management program for over 26 years.

Kendra Schroeder is the Document Management Administrator for Michigan State University's Infrastructure, Planning and Facilities Unit. She handles the implementations, configurations, training, quality control, process management, and everything in between. She has over 20 years of experience performing document management services for the university.

2:15 PM - 3:00 PM   Transform Utilities CAD into GIS *Capital Ballroom BC*

Sue Stewart, Senior IT Manager, Technology Resources, University of Texas at Austin
Kenny Cajas, GIS Analyst, Technology Resources, University of Texas at Austin
Zachary Berry, GIS Analyst, Technology Resources, University of Texas at Austin

Description - Details of the approach used by UT Austin to transform our CAD utilities data into GIS.

Presenter Bios:
Sue Stewart heads the Location Information Services section of Technology Resources at The University of Texas at Austin. She has spent the last 12+ years provide spatial support for planning, energy, and facilities efforts at UT.

Kenny Cajas is the Civil Lead for Location Information Services at The University of Texas at Austin. He has spent 6+ years providing geospatial support for planning, energy and facilities.

Zachary Berry, GISP is part of the CIVIL/UEM team within the Location Information Services section of Technology Resources at The University of Texas at Austin. He currently has more than 13 years of GIS experience and over 19 years of Computer Aided Drafting experience, including technical, analytical, and enterprise experience.

Prior to joining the UT LIS team he supported the DoD, various Municipalities, and Civil Engineering teams with CAD and GIS. He has spent the last year at UT directly supporting the UEM GIS effort and the LIS GIS team

2:15 PM - 3:00 PM **How to Ensure you are Receiving High Quality BIM Models** *Capital View North*

T.J. Meehan, Vice President of Technology Solutions, Professional Services, CADD Microsystems, Inc.

Description - Are you receiving BIM models for your projects? Maybe you have a set of published BIM requirements detailing what you want from those models. But, do you have a Quality Assurance (QA) program in place? This session will explore thtools and processes you need to have to ensure you are receiving quality BIM models. We will discuss: Revit templates and libraries, configuration files for classifications and COBie deliverables, and standardizing your BIM 360 sites.

Bio - As an expert and thought leader in the AEC industry around BIM and FM, T.J. assists architects, engineers, contractors, and building owners with successfully implementing efficient workflows with regards to design, build, and operate.

2:15 PM - 3:00 PM **Utilizing Advanced 3D Models in Virtual Reality Environments** *Capital View South*

Scott Stocking, GISP, Founder and Principal, Geospatial Technology, GEOLABS, LLC

Description - Review the latest developments in displaying large scale 3D models in advanced Virtual Reality (VR) environments. VR environments discussed included both holographic and immersed VR platforms. Review a number of technical considerations involved in presenting large scale 3D models in BIM/GIS/Point Cloud formats, and possible ways forward to successful deployments in advanced VR platforms.

Bio - Scott has worked in geospatial technology for 25 years in both the public and private sectors. Scott's work experience includes positions at the University of Chicago and Northwestern University.

3:00 PM - 3:30 PM **Business Partner Networking** *Capital Ballroom D - H, Ballroom Foyer*

Attendees are encouraged to spend time with exhibitors to network and learn about offered solutions.

3:30 PM - 4:15 PM   **Government Agency Integrates VR, EAM, & GIS for Improved Facility Operations** *Capital Ballroom A*

John Young, Practice Lead, Geospatial Services Team, Patrick Engineering

Description - Patrick Engineering helped a government agency develop an integrated facility asset management solution for optimizing operations for one of the largest buildings in US. Immersive 360 camera used to scan 100,000 SF of mechanical space to generate seamless indoor "virtual reality" (VR) visualization of spaces. Spaces are post-processed to add image-based asset tags and capture "view point" location data. These data are integrated with EAM & GIS. Value recognized for facility O&M, project management, and training.

Bio - John Young is a senior consultant and practice lead for Patrick Geospatial Services. He has 18 years of experience applying Esri's ArcGIS technologies to improve the business of Property, Facility, and Asset Management.

3:30 PM - 4:15 PM   **Mapping the University of Hawai'i at Manoa Campus: Year 2** *Capital Ballroom BC*

Julius Paulo, GIS Coordinator, Office of Systems Integration, University of Hawai'i

Description - The University of Hawai'i is currently in its 2nd year as a CFTA member. In that time span, the GIS staff has implemented what they've learned into mapping the UH Manoa campus (UHM). This presentation will share an overview of UHM's GIS efforts: from pre-CFTA days to its current Enterprise GIS setup. We'll also share show how GIS is integrated with our CAD, Revit, AIM (space management), and OnBase (document management) systems and workflows.

Bio - Julius Paulo graduated from the University of Hawai'i at Manoa with a BA and MA in Geography, specializing in Cartography. He also taught the Geog 472: Field Mapping course for a yew years. He now spends most of time enhancing the UHM GIS database.

3:30 PM - 4:15 PM   **BIM for Owners: Setting the Standards to Ensure the Outcome** *Capital View North*

Steve Davis, Senior BIM Specialist, BIM, Dallas/Fort Worth Area Office, Modulus Consulting

Sara Troy, BIM Project Manager, BIM, Dallas/Fort Worth Area Office, Modulus Consulting

Description - The session will start with a discussion on various Owner BIM Guidelines and do a compare/contrast walk through. Using a choose-your-own adventure style template, we will then outline a low cost Owner's BIM Standard Draft together focusing on those BIM uses which have been adopted by AEC professionals as their standard level of care. We will conclude with a discussion of the project specific circumstances or risks that would warrant a more robust level of BIM use.

Presenter Bios:
Steve Davis is a Senior BIM Specialist with 7+ years of experience in the AECO industry, focused on MEPF systems. Steve has wide-ranging project experience standardizing and delivering BIM uses for educational, mixed-use, industrial and data centers.

Sara Troy is a BIM Project Manager with Modulus Consulting, with a particular focus on the production of drawings using Autodesk Revit. She has 10 years experience working in the BIM Field. Sara has developed Revit Standards for various offices in the OAE

3:30 PM - 4:15 PM   **Pepperdine University Consolidates Revit Room & Asset Data to Populate FM & GIS** *Capital View South*

Gabriel Armas, Pepperdine University Malibu, Planning, Operation and Construction
Cyril Verley, Architect & President, Planning, Operation and Construction, CDV Systems, Inc.

Description - This presentation demonstrates Pepperdine University's steps to consolidate & populate Revit room & asset data from a multi-trade, multi-Revit model building project into a single SQL Server database called CodeBook. This "open-source" SQL server is then used to accurately populate the entire building, room and asset lists and data into PU's CAFM program: WebTMA & GIS program; ESRI GIS. Hand entering COBie and/or Revit asset lists per room for linked Revit project models is no longer required.

Presenter Bios:
Armas is developing PU's full-scale work flow to integrate all site geographical data into a full spectrum, geo-spatial, geo-located, database which can be repeated for FM managers and can serve all operational users' BIM needs campus-wide.

Cyril Verley is a registered architect since 1986 & founder of CDV Systems. As an award-winning BIM industry leading company since 2002, CDV Systems has partnered with the finest AEC+O firms, providing a full range of project-centric Revit & Codebook services.

4:15 PM - 4:30 PM **Switch Break**

4:30 PM - 5:15 PM **Housekeeping FTE FM Module Extensions** *Capital Ballroom A*

Mathew A Trickel, Facility Planner, University Housekeeping, North Carolina State University

Description - FM systems are not geared to calculate FTEs for custodial departments. It's more complicated than FTEs per SF. In 1992 APPA introduced the FTE staffing guidelines but schools are ill equipped to provide supporting data. On 4/4/19 CFTA posted a survey "Housekeeping FTE Facility Management Module" that measure the need for an FTE calculator on FM system module extensions. The survey and white paper author will present findings and methods used at NCSU to validate staff.

Bio – Mat has 24 years of custodial and data management experience to calculate FTE on an FM system and Excel in addition to other department application designs. He has presented at conferences for FM Systems, NCAPPA, SRAPPA, APPA, ACUHO and APPA book author.

4:30 PM - 5:15 PM **Transitioning Your Campus Assets to GIS** *Capital Ballroom BC*

Tony Yates, GIS Manager, GIS, Langan
Joe Rosol, Senior GIS Analyst, GIS, Langan

Description - More and more campuses are seeing the benefit to having their assets managed in GIS. This presentation will discuss the process for bringing your assets from hard copy maps, field sketches, and CAD drawings into an Enterprise GIS. Information provided will discuss how to design your database, the workflow to import all your data, and how to manage it going forward in GIS.

Presenter Bios:
Tony Yates graduated from Penn State University with a focus in GIS. He is a certified GIS professional and is responsible for managing the GIS department at Langan. He has been with the firm for 9 years, and specializes in Utilities and Facility Management GIS.

Joe Rosol is a Rowan University graduate with a Bachelor's degree in Geography and a dual minor in GIS and Planning. He is an analyst with expertise in utility networks, network analysis, geodatabase design, georeferencing / digitizing raster and vector data within GIS. His work spans multiple industries including Higher Ed, Healthcare, Industrial and Retail.

4:30 PM - 5:15 PM   **BIM & CAD to FIM: A new model of Hybrid** *Capital View North*

Matt Davoren, President & COO, Technology and Planning, CADD Microsystems

Description - Campus planning involves sorting through CAD & BIM deliverables in overwhelming fashion. BIM may be the future but what about today's needs? How do you separate but still share between the two worlds of CAD and BIM? In this session, start to develop a game plan for a hybrid environment of CAD with an eye toward BIM with current and future deliverables. Learn about a phased implementation plan to transition from CAD to BIM and avoid common pitfalls, one building at a time.

Bio - Co-founder of CADD Micro, Matt has successfully implemented Facilities solutions for over twenty years. He has presented on technology topics to the AIA, IFMA, CFTA and Autodesk University. Matt has a B.S. in Architecture from Clemson University.

4:30 PM - 5:15 PM   **Implementing/Using Archibus as Space Management Solution at Stanford University** *Capital View South*

Dobie Howard, Manager, Facilities Information Services, LBRE, Maps and Records, Stanford University

Description - As one of the world's leading research universities, Stanford University requires a complex space management solution for its environment; standard implementation procedures and out-of-the-box solutions could not be easily adopted. This presentation will go over key items from implementation through go-live. Topics discussed will include: documenting requirements, vendor review, overview of iSpace (web-based data entry and reporting) and CAD integrations, including graphical reporting tools.

Bio - Dobie Howard has been with Stanford University for 30 years and manages the Facilities Information Services group. Dobie's first CFTA conference was in 1995. His knowledge/experience includes: SQL, AutoCAD, AutoLisp, VBA, Revit, FAMIS, Archibus.

Thursday, August 1st

7:00 AM - 8:15 PM   **Breakfast** *Capital Ballroom D – H*
(To-go items and containers will be available- No Glass)

7:50 AM - 8:30 AM   **Load onto Buses for UT Austin Campus Tours** *Sheraton Hotel*
Please load onto your designated bus based on tour pre-selected *for* departure at 8:30 am *(signage displayed)*
(Pick up and drop off will be on 11th Street just before the first driveway entrance in the eastbound lane so guests are to load from the sidewalk)

9:00 AM - 10:30 AM   **Campus Tours** *University of Texas Austin* *Pre-registration required.*

CFTA attendees will have the unique opportunity to participate in one of the following tours on the campus of the University of Texas at Austin:
- Architecture Tour
- Campus Ecology Tour
- Stadium Facilities Tour
- TACC Visualization Lab Tour
- LBJ Presidential Library Tour

10:20 AM - 10:45 AM **Load Buses to return to Sheraton Hotel** *University of Texas Austin*

11:30 AM - 12:15 PM **Lunch** *Capital Ballroom D - H*

12:15 PM - 1:00 PM   **ARC Facilities - Technology Trends and 5 Best Practices**
Capital Ballroom D - H

Carlo Agnello, Regional Sales Manager, Technology Solutions, ARC Facilities

Description - Facility leaders agree that the use of technology will continue to increase, shows recent research. Often, though, there is a disconnect between IT, senior executives and facility managers on agreeing on technology purchases. Hear the latest trends and take away five best practices for evaluating and adopting technology. Hear cases on how facility teams have fixed gaps in productivity, service response times, succession planning, and emergency response plans.

Bio - Carlo brings 15+ years of leadership experience to ARC, including SaaS roles at Salesforce and LinkedIn. His expertise lies in building out regions and expanding team

productivity, performance and success. He has established partnerships with ARC's largest customers to grow its innovative facilities solutions for the built space.

1:00 PM - 1:45 PM   **All Member Meeting** *Capital Ballroom D - H*

Join us to learn about CFTA news, goals, new leadership announced.

1:45 PM - 2:00 PM   **Switch Break**

2:00 PM - 2:30 PM   **It Takes a Village: Total Cost of Ownership** *Capital Ballroom A*

Ana Thiemer, Associate Director & Co-Chair, Planning and Project Services, PCMS - The University of Texas at Austin & TCO ANSI Standard

Description - Implementing a new standard is never easy due to the culture change involved - "That is not the way we have always done it." A new TCO standard looks at all issues involved with the costs of single items, new facilities, existing facilities, and investing using BIM, IWMS, GIS and all the above. The session will discuss the principles presented in Part 1 of the ANSI recognized standard and review implementation objectives coming in Part 2 through case studies.

Bio - As an Associate Director, Ana leads a diverse staff of architects, engineers, administrative and other professionals. Ana chairs an ANSI APPA TCO Standard, and is faculty for APPA. Ana holds a bachelor's degree and a master's degree.

2:00 PM - 2:30 PM   **Toto, I Don't Think We're in 2D Anymore! The U of A's Emerging 3D GIS Framework** *Capital Ballroom BC*

Naveed Ahmed, GIS Application Developer, Department of Planning, Design & Construction / UA Enterprise GIS, University of Arizona
James Wadsworth, GIS Data Analyst, Department of Planning, Design & Construction / UA Enterprise GIS, University of Arizona

Description - A framework for 3D mapping of the UA campus has been under development in some form for 10+ years. Recently efforts have come together to allow this information to be published in 3D web maps using the Esri Js API 4.1. Work continues on refining the data model, enhancing the data itself, and developing automated publishing workflows. An evolving future roadmap for 3D will be described, including integration with indoor/space data, anticipated use cases, and photorealistic enhancements.

Presenter Bios:
Naveed has worked as a GIS Application Developer at the U of A since 2016. He holds an undergraduate degree in Computer Science and a MS in GIS-T. He has more than 11 years of GIS application development experience with different organizations.

James Wadsworth has a M.S. in Environmental Science and developed his GIS skills during his undergraduate and graduate coursework. He is working as a GIS Data Analyst in the Department of Planning, Design & Construction, where he started working as a graduate student in 2015, while also currently pursuing a M.S. in GIS Technology. He was responsible for the coordination of the first phase of the UA Sustainability Web Map, and has continued to support the development of the GIS-backend during its current phase. James regularly works to maintain the University's spatial data while contributing to the development for many other PD&C projects. James is heavily involved in the development of the University's 3D GIS data.

2:00 PM - 2:30 PM   **Utilizing Microsoft HoloLens to Verify As-Built Models for an FM-Capable BIM** *Capital View North*

Walid Thabet, President, Executive, Virtual Facilities Consulting
Anderson Lewis, Construction Technology Consultant, Procon Consulting

Description - An FM-capable BIM must contain fully connected building systems with model geometry at the required level of development (LOD) and level of accuracy (LOA) to insure the model is consistent with existing field conditions and to enable facility managers to understand, analyze and make well-informed operating decisions. The HoloLens provides AR capabilities to augment graphical information and enable users to review systems, and compare BIM elements to corresponding real world components.

Presenter Bios:
Walid Thabet (PhD) is president of VFC and is responsible for identifying VDC and BIM-FM best practices and technology solutions for A/E/C industry. Walid is also the W.E. Jamerson Professor of Building Construction at Virginia Tech.

Anderson Lewis is a Construction Technology Consultant with a demonstrated history of working in the management consulting industry. His skills include construction management, BIM, COBie, leadership, sustainability, and data analysis. Anderson also gained experience as a researcher while pursuing his master's degree in construction

management at Colorado State University, which resulted in the publication of multiple journal articles.

2:00 PM - 2:30 PM   **Taking Campus Surveying to the Next Dimension** *Capital View South*

Andy Burg, Vice President, Construction Technology & Innovation, Messer Construction
Brant Fischer, Sr. Project Solutions Consultant - Quality Division, Construction Technology & Innovation, Messer Construction

Description - Messer has begun documenting and mapping campus info and entities by using photogrammetry from drones and more detailed point cloud data from terrestrial scans. Civil site information can be captured quickly and at any time prior to, during, or after a major campus project. In this session we will review 2 projects and how UAV and Laser Scanning was used to document Civil Site information. We will also explore where we are headed with integrating this information with GIS for use by facilities management.

Presenter Bios:
Andy is a proven builder and leader with over 28 years of experience in the construction industry. He is a 1994 graduate of the University of Cincinnati with a Bachelor's degree in Construction Management. Today he leads the team responsible for advancing the company's construction operations in technology, innovation and process improvement to sustain the companies continued growth. He has been responsible for developing and managing the company's advanced capabilities and strategies for utilizing Building Information Modeling on projects throughout the company.

Brant Fischer works with construction operations managers to implement quality management processes and construction technology solutions.

2:30 PM - 3:00 PM   **Business Partner Networking** *Capital Ballroom D - H, Ballroom Foyer*

Attendees are encouraged to spend time with exhibitors to network and learn about offered solutions.

3:00 PM - 3:30 PM   **Putting Your Data to Work** *Capital Ballroom A*

DeVon Miller, Building Commissioning Specialist, FM Engineering, Western Michigan University
Mike Crosson, Account Executive, FM Engineering, KGS Buildings, Inc.

<u>Description</u> - Facility managers seek to equip their teams with smarter tools that will provide actionable insights, drive proactive maintenance, and track the impact of their work for management and resource planning. This presentation provides key lessons learned and examples of value implementing Fault Detection & Diagnostics (FDD) at Western Michigan University (WMU).

<u>Presenter Bios</u>
DeVon is the Building Commissioning Specialist at Western Michigan University, and has over 15 years of experience in project management including energy conservation, BAS, and building commissioning. He has a BS in ME from MTU.

3:00 PM - 3:30 PM   **Venue Management via and Indoor Mapping Data Format - BIM/CAD/GIS** *Capital Ballroom BC*

Manik K. Arora, President & CEO, Executive, Arora Engineers

<u>Description</u> - A Venue Management Platform provides users the ability to convert their existing floor plan data from CAD files, BIM Models, and Geospatial DB files into Apple Maps certified Indoor Mapping Data Format. Features included in CAD, BIM and GDB file types are converted through a customized workbench and stored within the platform to help facilitate relationships between an org. in any industry. We created a single source of truth that apps can leverage to provide opex savings, data analysis, and visualization.

<u>Bio</u> - Manik K. Arora, PE, is CEO of Arora Engineers. Arora's 200-person multi-disciplinary engineering team specializes in design, program and construction mgmt, information technology, facilities managment, and asset management.

3:00 PM - 3:30 PM   **LOD What?: Realistic BIM Expectations From Your A/E/C Partners**
Capital View North

Alex Belkofer, CM-BIM, VDC Director, VDC, McCarthy Building Companies
Brian Skripac, CM-BIM, Vice President, VDC, CannonDesign

<u>Description</u> - This presentation will demystify the term "LOD" - aka Level of Development - as it relates to BIM content creation and what owners should be able to ask for from their design and construction industry partners. There is no such thing as an "LOD xxx" model - so let's unpack: - correct definitions for LOD - how it can help you as an owner? - why it matters? - what to ask for and how to ask for it? - what can you expect at the end of the day with the model content you want to receive?

Presenter Bios

Alex is a Central Region VDC Director; Strategy and implementation leader of Virtual Design and Construction services; Guides, trains and supports various partners through the VDC life cycle process; Regular organizational member and speaker with ABC, AGC & CFTA.

Brian is CannonDesign's Director of Virtual Design and Construction (VDC) who continually drives innovation by focusing on the process orientation of the Building Information Modeling (BIM)-enabled VDC project delivery processes across the firm as part of the Construction Delivery Services leadership team. In addition, he focuses on the use of building information models to capture and structure relevant facility data to achieve the value a BIM-enabled VDC delivery process brings to facility owners from an interoperable lifecycle management strategy.

3:00 PM - 3:30 PM   **Campus Planning: Why a digital utility atlas is the key to knowledge succession** *Capital View South*

Michael A. Twohig, Project Director for Subsurface Utility Mapping, Geospatial, DGT Associates

Description - Schools have succession plans for the important aspects of their institutions — endowments, faculty, curriculum, leadership. What many schools don't have is a succession plan for the most visible, tangible part of their institution: the campus itself. As paper records are forgotten under piles of other information, and sources of institutional knowledge retire, that history is in danger of being lost. A digital utility atlas is vital to protecting and planning the school's future.

Bio - Mike Twohig is an internationally-known expert on subsurface environments with 34+ years of experience. As DGT's Director of Subsurface Utility Mapping, he leads projects using modern technology including Lidar and BIM to map projects in true 3D. Mike is on the leadership team at DGT Associates, a surveying and engineering company based in Boston with roots stretching back more than 125 years. DGT works in a variety of commercial spaces, universities, medical campuses, and residential areas.

3:30 PM - 3:45 PM   **Switch Break**

3:45 PM - 4:15 PM   **Increasing Productivity Through Asset Information Collection** *Capital A*

Ken Jordan, Facility Management Consultant, Business Development, AkitaBox

Description - When budgets are tight, organizations looking to increase facilities management productivity don't have the option to hire more staff. By building a database of reliable space and asset data, your team can waste less time searching for information and spend more time in the field completing tasks. This presentation will outline value that accurate space and asset data brings to organizations, how to collect this information, and how this information increases productivity and reduces costs.

Bio - Ken Jordan is a former Army officer turned award-winning facility manager. Prior to consulting on technology solutions at AkitaBox, he served as Director of Facility Services at higher education facilities across the US.

3:45 PM - 4:15 PM   **What's Behind Door #3? Interactive Floorplans at the University of Arizona** *Capital Ballroom BC*

Grant McCormick, UA Enterprise GIS Manager, Planning, Design, and Construction, University of Arizona
Brian Alubowicz, Business Analyst, Sr., Planning, Design, and Construction, University of Arizona

Description - The UA has internally developed a GIS-based web application for managing and visualizing space data. This is part of a larger effort to transition from a vendor-solution for Space Management to a full in-house framework. The goals, process, technical framework and results will be highlighted. We will also touch on how a GIS-based approach has allowed building interior information to be re-purposed for other uses such as public wayfinding.

Presenter Bios:
Grant is the UA Enterprise GIS Manager within the Department of Planning, Design, and Construction, where he began the University's Enterprise GIS initiative over 20 years ago. He holds a Masters of Landscape Architecture from the U of A.

Brian attended the University of Arizona and received a BSBA. In his current role, as a Business Analyst, Sr., he is on a team responsible for collecting and analyzing reports that disseminates space data information.

3:45 PM - 4:15 PM   **Your Campus Guide to Sensors and Beacons** *Capital View North*

Charlie Newell, Enterprise Account Director, Sales, Space IQ
Johann Zimmern, Senior Solutions Manager, Aruba

Description - The future of campus facilities is technologically enabled, with greater automation through smart devices like sensors and beacons. Imagine a campus where you know which meeting rooms are utilized to avoid overlap, how many people are in the room and its campus location campus. If light bulbs need to be replaced or a PowerPoint fails—notifications can be sent to facilities managers. From simple conveniences to core insights, learn how sensors and beacons can maximize campus oversight.

Presenter Bios:
Charlie has been in the enterprise workplace strategy game for over nine years. His understanding of CRE needs blends seamlessly with the latest technological advances. With a balance of common sense and business savvy, he is excited to represent SpaceIQ at the CFTA this year.

Johann is a Sr. Solutions Manager in Aruba's global marketing team with responsibility for Higher Education enterprise customers. In this capacity, he's managing Aruba's education advisory council and is focused on the realization of advanced network, wireless, and access management – in support of student success. Johann studied English and American literature at University of Hamburg, Germany and holds a degree in the performing arts.

3:45 PM - 4:15 PM   **Evolution of Field Data Collection Methods at UT** *Capital View South*

Sue Stewart, Senior IT Manager, Technology Resources, University of Texas at Austin
Chris Rivera, GIS Analyst, Technology Resources, University of Texas at Austin

Description - Evolution of survey methods at UT that take us from tape measures to rovers, total stations, and drones.

Presenter Bios:
Sue Stewart heads the Location Information Services section of Technology Resources at The University of Texas at Austin. She has spent the last 12+ years provide spatial support for planning, energy, and facilities efforts at UT.

Chris Rivera is a member of the Location Information Services section of the Technology Resources (TRECS) department at UT Austin. Chris has over 20 years of service at the university, originally as a member of the Utilities and Energy Management department.

He has since become a member of the TRECS team and assists with the maintenance/updates of university-wide utility maps, as well as interior floor plans.

4:15 PM - 4:30 PM   Switch Break

4:30 PM - 5:00 PM   Facilities GIS at UNT: Curating institutional knowledge, inspiring operations *Capital Ballroom BC*

Peter Palacios, Assistant Director, Facilities Information Services, University of North Texas

Description - Utilizing high-accuracy mapping technology, Facilities GIS collects and curates a wealth of institutional knowledge about campus infrastructure and assets. This rich database supports work in strategic planning, project design, construction as-built mapping, maintenance operations, and community engagement. Learn about the ways we're leveraging traditional field mapping, drone technology, and GIS applications at UNT Facilities to enable location intelligence across the organization.

Bio - Peter has worked at UNT for 10 years in various roles developing information systems for Facilities management, including an enterprise space management system, the creation of the geographic information system, and teaching.

4:30 PM - 5:00 PM   Digital Twin of Campus via integration of BIM with GIS, IoT, FM *Capital View North*

Igor Starkov, CEO, Administration, EcoDomus, Inc.

Description - The technological advances of the recent years include not only software upgrades and cheaper/better sensors but also a wider adoption of open industry standards. The presentation will review how open BIM (COBie, IFC), GIS standards (CityGML, IndoorGML), IoT/BAS protocols (OPC, BACnet), and point clouds (e57) can be used together to create a virtual copy of your campus, or how it is often called now: "Digital Twin".

Bio - Mr. Starkov is a computer scientist and entrepreneur with over 25 years of experience in software consulting and development for construction and facility management industries.

4:30 PM - 5:00 PM   The Challenges of Capturing Fiber Networks *Capital View South*

Colin Hobson, Director, Administration, North America, Open Spatial

Description - Fiber networks are a complex challenge to capture and manage, in part because there are multiple levels of relationships - Duct backs containing cables and cables containing strands. Further, connections can be spliced along the way, cables may go through vaults without breaking and there may also be devices like multiplexors. Understanding the fiber asset data and representing them in GIS structures is a challenge that this presentation will address.

Bio - Colin Hobson, GISP is experienced in asset management projects on campuses. One of his strengths is the use of appropriate technology and practical techniques to capture and manage utility data and other systems.

5:30 PM - 6:20 PM   Load Buses to Special Event *Sheraton Austin*
Buses will stage at 5:30pm for 5:45pm departure and return for 6:10pm departure.
(Pick up and drop off will be on 11th Street just before the first driveway entrance in the eastbound lane so guests are to load from the sidewalk)

6:30 PM - 9:00 PM   Special Event: Cooper's BBQ with 3 Chord Rodeo Live *Cooper's BBQ*

Join us for an evening of Food, Drinks and Live Music - true Texas style! Buses return to the Sheraton beginning at 8:45 pm, every 20 minutes until 9:30pm

CFTA'19 Agenda

Friday, August 2nd

7:00 AM - 8:00 AM   **Breakfast** *Capital Ballroom D - H*

8:00 AM - 8:45 AM   **Breakfast Blind Bidding Bonanza! ---RAFFLE** *Capital Ballroom D - H*

8:45 AM - 9:00 AM   **Switch break**

9:00 AM - 12:00 PM   **Unconference** *Capital Ballroom D - H*

Unconference sessions are meant to be informal exchanges of information and driven by attendees primary topics of interest. This year, Join us for a special activity by McCarthy Building Companies:

Enhancing the End Deliverable: A Pull Planning Exercise on Who, What, Where, When for BIM Execution from all Project Stakeholders

- Participants will be broken up into participant role groups (Owner, Designer, Builder, Trade Contractor, Vendor, etc.)
- Activity will be to review when information from the Owner is most important, most critical, most needed, most desired, etc.
- Roles will discuss and "pull plan" activities based on needs and impact to the project and its stakeholders

12:00 PM ---- **CFTA Conference Concludes**