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Leadership in Educational Facilities

GAPPA News

February 2017

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Programming for Woodruff Renovation at GA Tech

1 - Executive Summary

Woodruff Residence Hall was built in 1984, the existing structure provides semi-suite style residences and full service dining for 551 students. This project will be a full renovation to modernize the four bedroom towers and convert the existing Dining/ Kitchen and Services area into a Living Learning Community. The bedroom units will be converted to double and single bedrooms with private baths for a total of 430 beds. The existing structure is 139,249 square feet. The new addition for the Living Learning Community will add 12,967 sf in the existing courtyard for a total of 152,216 sf. Housing will occupy 121,625 sf and the Living Learning Community will occupy 30,591 sf. This renovation supports the Institute's Living Learning Community Initiatives and directly correlates to the American Association of Colleges and Universities' LEAP initiative. Considered a "High-Impact Practice", LLCs address many of the essential learning outcomes outlined by LEAP - "learning how to learn, how to distinguish good information from bad, how to frame and solve complex problems, how to work with others, and learning about the world and one's place within it (Brower & Inkelas, 2010)." (LivingLearning Programs: One High Impact Educational Practice We Know a Lot About). Additionally, LLCs facilitate quality faculty/student engagement and strength student pride and commitment to Georgia Tech. LLCs add critical value to on-campus housing and support the mission of the Institute.

This project shall comply with all codes and regulations described on the Office of Facilities Architectural and Engineering Design Standards – Georgia Tech Yellow Book, Article 2.00 Authorities and Code Regulations. Revised June 30, 2016.

2 – Existing Conditions Report

SITE - Woodruff sits on the northwest edge of the campus. The site is bound by 8th Street to north, Curran Street to the east, Turner Place southeast and Northside Drive to the west. Wood and concrete site walls transition the grade changes from Curran Street to the primary building elevation. Concrete sidewalks tie the two residence tower entries and the open concrete paved courtyard leading to the Dining Hall. In addition, a long concrete barrel vault canopy extends the majority of the east façade. The southern edge of the site is bound by a series of utilities: a trash enclosure, cell tower and abandoned foundation. To the west, grass lawns are maintained within and surrounding the internal courtyards. The west edge of the site is fenced off from the adjacent public roadway Northside Drive. A loading dock west end of the building faces north and is connected by an asphalt drive to 8th Street. A public sidewalk creates the north edge of the site bordered by a wood retaining wall and a wide concrete stair linked to the main entry.



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INTERIOR - The interior is divided into three zones: the central two story Dining Hall and two five story “U-shaped” residence towers. The Dining Hall floors are brick tile and quarry tile, walls are a combination of gypsum board split face concrete block, and painted concrete masonry units. The ceiling is painted exposed concrete structure and lay-in acoustical ceiling tiles. Two mezzanine levels overlook the dining area and are accessed by metal stairs. The entry to the residence wings are split face concrete masonry unit walls with brick tile floors and 2X2 lay-in acoustical tile ceilings. Residence corridors and lounges are painted concrete masonry unit walls carpeted floor, 2x2 lay-in acoustic ceiling tiles and painted hollow metal door frames and solid core doors. The resident rooms have VCT floors painted concrete masonry unit walls and lay-in acoustical ceiling tiles. Adjacent to the Dining Hall are the existing laundry room with VCT floors gypsum board walls and lay-in ceilings and the mechanical rooms with exposed concrete floors concrete masonry walls and exposed ceilings.

While some remediation has already been done, the building may still contain hazardous materials on areas not currently exposed, it is anticipated further investigation in this area.

BUILDING SYSTEMS – The building mechanical, electrical, plumbing and fire suppression systems are to be fully replaced.

3 – Description of New Systems and Program

SITE – The scope of site work is to include demolishing and rebuilding the sidewalks, retaining walls, and landscape. All site paving and pedestrian areas along Curran Street are to be updated and provide accessible routes to a new central entry point to support the repurposing of the building for a Living Learning Community. Assume new connection of chilled water supply and return, water line for domestic and fire at Curran St. Keep existing gas line and transformer. Assume new emergency generator, new electrical and data connections. Remove foundation structure and concrete trash walls located south of Woodruff (verify). Regrade and add new landscape in this area. Cellular tower to remain. In addition, accessible routes will be included to connect the site to the upper deck of the adjacent parking structure and the new Dining Hall.

ENVELOPE – The university has engaged WJE for a building façade assessment and recommended remediation. Included are some items addressed in the final report. Brick veneer façade: line exterior face of back-up wall with a weather resistive barrier. Investigate and remediate through wall flashing at all lintels. Fix vertical brick expansion joints. Eliminate and close vent hoods. Replace building expansion joint. At all structural and decorative concrete and precast façade elements repair cracks and spalls. Replace all façade sealants. Windows, storefronts and curtain walls: replace all residence hall windows, storefronts, cavity wall sealants and caps on curtain walls. Re-roof entire structure with new flashing, rework and replace coping units.

In addition, as part of the mechanical and programming upgrades, exterior existing vents at every bedroom will be enclosed, all intermediate low roofs (dining hall) will have partial demolition and add new roofing structure and roofing systems, and parapet coping will be replaced and through wall flashing reworked.

Newsletter Committee Chair and Editor:

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Programming for Woodruff Renovation at GA Tech

HOUSING - The renovation entails converting double semi-suite bedrooms to 175-180 sf double bedrooms with private baths. The bedrooms can be converted from doubles to singles through furniture distribution to respond flexibly to annual populations. Each wing of the building creates a housing community with a lounge. The northern and southern most wings have lounges strategically placed in the center to introduce daylight into the corridor, minimize the zigzag offsets in the existing plan and create a “community center”. The two bedroom wings on the north will be linked by a glass corridor and central open stair to the southern bedroom wings promoting active lives and connectivity between communities. Floors four and five provide upgraded full kitchens and on floor laundry rooms to appeal to upperclassmen. Existing elevators will be replaced with larger elevators able to handle stretchers and move-in/ move-out loads better. These two central service zones on each floor also accommodate improved data, electric, mechanical and custodial rooms along with the addition of gender neutral restrooms for floor guests. Two large laundry rooms are located on the first floor for freshmen residence. All laundry appliances are provided by an outside vendor and tied to the access card system.

LLC - The Living Learning Community becomes the focal point of Woodruff Hall. The removal of the front canopy and the new addition filling in the existing courtyard allows for a central entry point around a monumental stair linking all four bedroom wings to the Living Learning Community (LLC). An open two story 2,500 sf Team Collaboration Zone sets the tone for the LLC. Studies, nooks, a media room and housing offices flank the circulation paths around the collaboration zone providing sociable but quieter opportunities within the same context. Near the entry and adjoin the media room are two private restrooms and a vending room. The housing office suites are broken into two symmetrical configurations of two offices with two open “faculty hoteling workstations” and lockable storage on the north and south of the collaboration zone. The office suite to the south has access to a conference room. Adjacent to this office suite is a two bedroom one bath Hall Director’s apartment. West of the collaboration zone and within the renovated existing dining hall shell is a large 3,000 sf classroom. The classroom can be divided into two separate unequal classrooms of 2000 sf and 1000sf. Flanking the classrooms are study rooms, furniture storage and public restrooms. The corridors outside the classrooms are lined with a combination of lockable storage for student and built-in seating banquets for waiting between classes. Beyond the classrooms is a 3,000 sf Makerspace for light duty industrial education. The Makerspace will have the ability to initiate and foster student design and innovation through 3D printing, WaterJet, wood working and metal work. Sealed concrete floors, open ceilings and direct outdoor ventilation allows special freedom to create within the residence hall. The existing loading dock is connected to the Makerspace by way of an overhead rolling door. A large custodial room, general building storage and a warming kitchen are all accessed from the loading dock corridor. The loading dock will be updated with an accessible exterior ramp and exterior overhead rolling door.

SYSTEMS - The comprehensive renovation of the building and addition will address replacement of mechanical systems, improvement of indoor air quality, and energy efficiency. Mechanical replacements will include VAV systems with robust exhaust for the Living Learning Community and 4 pipe fan coil units, AHU and ERU on each roof for the residence floors. Water systems to include domestic hot water and hydronic water with new dual fuel boilers. Chilled water will be supplied by exchangers. The scope of work also includes all new building electric. All new data and AV technology services to the building. IT assumes one port per pillow with a redundant high density Wi-Fi system and multiple ports for VoIP in community spaces. Upgraded alarm system to have access controls on all exterior doors, doors separating public and residential spaces and all corridor doors into bedrooms. Exterior doors to be POE and interior doors to be wireless. Cameras will be placed on all exterior access doors, stair entries and between floors and the Makerspace. Upgraded life safety to also include fire suppression system fire pump, associated generator, and new stairwell standpipe to serve all floors. All existing and future building systems to be reviewed and expertly contributed to by the consulting engineers.

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Ga. Regents approve new oversight of building projects

The University System of Georgia Board of Regents approved new financial oversight measures Tuesday to limit borrowing for non-academic building projects.

Board members unanimously passed three policy changes and one policy revision aimed at the public-private ventures (PPVs) the system has been using for more than a decade to finance dormitories, parking decks and recreation centers.

The belt tightening is motivated by a combination of pressure on the system's budget from the still-sluggish economy and a slight decline in student enrollment at Georgia's public colleges and universities.

"The public wants us to focus on academics first and buildings that are not academic second," said Regent [Ken Bernard](#) of Douglasville.

The changes approved by the board will:

- Prohibit the system's capital spending debt from exceeding 5 percent of system revenues, down from the current 7 percent.
- Establish a "capital liability" reserve fund at the system level to cover missed payments.
- Require colleges and universities to look for opportunities to refinance loans on building projects and share at least 50 percent of the savings with students. Student fees help finance PPV projects. "It is the students' money," said John Brown, system vice chancellor for fiscal affairs. "We think they should see some of the savings."

The board also approved a revision of the system's housing policy that will require the chancellor to approve any future plans to require students at a college or university to live on campus. The revision will not apply to schools that already have a mandatory housing policy.

After the votes, Chancellor [Hank Huckaby](#) said the new policies should be well received by the system's rating agencies. He said he will meet with executives from the rating agencies Nov. 27 in New York City.

"Having these policies in hand will really strengthen our discussion with them," Huckaby said.

The system began using PPVs in the late 1990s as an alternative to the general obligation bonds used to finance classroom and other academic buildings. So far, the system has built 175 PPV projects with an outstanding debt of \$3.6 billion.

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Atlanta Business Chronicle



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HVAC Systems — Replace, Repair or Upgrade?

Building Owners and Facility Managers are often confronted by a difficult choice when it comes to their HVAC systems: Do I continue to absorb recurring high maintenance costs on my chillers and A/C units, or do I buy an entirely new HVAC system? The decision is easy if the equipment is old and inefficient, as new chillers and roof-top units (RTUs) are so efficient today, a reasonable payback period is the norm. An alternative to replacing the entire chiller or HVAC unit is upgrading those system components that are causing the most downtime and consuming the most power.

Compressors, pumps and fan motors are mechanical devices and, therefore, susceptible to failure over time. Among these, compressors consume the most energy. By replacing a failed compressor with a rebuilt model, the system cannot take advantage of the latest high efficiency technology in the market. There is a reason that chiller and RTU manufacturers converted their reciprocating compressor based models to scroll and screw compressors back in the '90s. They're more reliable and more efficient. Upgrading old systems with the latest compressor technology is now commonplace.

One major mechanical contractor in California has upgraded numerous built-up DX systems by removing an old open-drive reciprocating model with a screw compressor that is optimized for the application. They select a model that meets the load requirements and, in virtually every case, the motor HP of the screw compressor is reduced by 20 – 30%. One job they did on a pair of medical office towers in LA qualified for a \$250k utility rebate.

Variable speed drives for use with scroll compressors, pumps and fan motors offer another upgrade option that will significantly reduce energy costs. In many states, power companies offer rebates for VSDs that helps to justify the upgrade. Chillers and RTUs run at full load a small percent of the time they are operating, so running equipment that is designed for part load operation is the goal.

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AHRI refers to this performance characteristic as the Integrated Part Load Value (IPLV) of a chiller that provides capacity modulation. The IPLV is calculated by measuring the efficiency of the chiller at 100%, 75%, 50% and 25% load. AHRI created a benchmark standard for calculating IPLV so chiller manufacturers could rate their equipment against each other. In their formula, a chiller only operates at full load 1% of the time. It operates at 75% capacity 42% of the time, 50% capacity 45% of the time, and 25% capacity 12% of the time. While systems are generally sized to the maximum possible load on the building, it is obvious that equipment be capable of efficient performance at part load.

Building Owners and Facility Managers also need to understand their refrigerant options. Most old systems use R22 refrigerant, which has become quite expensive since the EPA banned its usage in new OEM equipment. Some contractors will recover and reuse the R22 from the system while others prefer R407C as an alternate R22 replacement. If changing to R134a or R410A, things get more complicated (expensive), as most of the system components will need to be upgraded.

Regardless of the refrigerant selected, the installing contractor should include liquid and suction line filter dryers in the retrofit installation. Expansion valves should also be checked and replaced with EXVs if needed. In screw compressor retrofits, it is advisable to do a complete oil change after 7 – 10 days of operation to ensure that the system is clean. An oil sample should be analyzed to ensure there is no moisture, acid or particulate matter in the system.

All things considered, retrofit upgrades offer Building Owners and Facility Managers an option they may not have known existed. For the fraction of the cost of a new chiller or A/C system, they can upgrade their current units with new high efficiency compressors, variable speed drives and alternate “Green” refrigerants. With a good Preventive Maintenance program, an upgraded system should provide many years of reliable comfort cooling with significant energy savings.

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Creating Space out of Thin Air

The University of West Georgia is one of the University System of Georgia's fastest growing campuses. It is a comprehensive, residential institution providing selectively focused undergraduate and graduate education primarily to Georgia residents. It is one of a few, so-called "robust tier" universities, that offer a wide variety of programs including doctoral degrees. With a growing enrollment, there is always a need to add more space, for not only students, but also faculty.

UWG's Technology-Enhanced Learning Center (TLC) is a state-of-the-art facility central to the university's core curriculum and home to the chemistry, computer science, English, philosophy, and history departments, as well as the Writing Center. Every classroom in the TLC building is a "smart" classroom, wired for lap tops and other smart devices.

Labs and lectures come together to make learning seamless. UWG's Director of Planning and Construction Services, Fred Ricketson and his team realized they needed to create more faculty space for the Departments of English and Philosophy. But where to do this became a tough question. UWG hired Pieper O'Brien Herr Architects (POH) to help determine a solution. Having experience working on projects within occupied environments, including complicated infill projects, POH was able to come prepared with the skills, knowledge and best practices essential to successfully complete work in highprofile, occupied and well-trafficked sites. UWG and POH decided to take advantage of the atrium area by infilling the top floor of the three-story building.

This required a well-trained team of experts. Since this was not an ordinary structural flooring solution for the project, it was determined that PES Structural Engineers (PES) would provide the right expertise to complement POH on a challenging design project.

Johnny Hembree, POH Principal, and Carmen Banham, POH Interior Project Manager, working closely with UWG Project Manager Mike Conley, realized there were multiple challenges that had to be taken into consideration.



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Creating Space out of Thin Air

A main design and construction challenge was how to set and support a new structural floor between existing poured concrete girders, three-stories high in the atrium space, all the while giving a final appearance that the building had always been planned that way.

A long-span Deep-Dek metal composite cellular acoustical panelized system was used to span between the concrete girders and received a concrete topping for the final floor surface.

The contractor, Lovvorn Construction, worked within a specified schedule to perform all of this structural flooring work at night between 10 pm and 6 am to avoid class disruption during the day. Once the structural floor was finished, it provided a working platform to complete the balance of the build-out work. The students, faculty, and staff didn't miss a beat and classes continued unabated.

The schedule for this build-out project was tight. The design and construction team worked closely with UWG and the end users to devise a schedule that allowed work to be completed without interrupting operational hours. The project was materially complete in about ninety (90) calendar days after Notice to Proceed was issued to the contractor. Eight (8) faculty offices with a conference room at the end of the corridor were occupied by faculty from the Department of English and Philosophy in early May of 2016. The total project cost was \$671,974.00.

Decorative wood ceiling panels and pendant fixtures were hung underneath the metal acoustical decking at the second floor to provide visual interest and lighting. Throughout the corridor along the window wall, bright carpet accents with acrylic ceiling panels in UWG blue and red were used to reinforce the UWG brand. Semi opaque roll down shades were installed to control daylighting. Finally, variable refrigerant volume (VRV) HVAC system was used and provides each space with greater control of temperature and comfort needs.

At the end of the day, all facets of the renovation project were performed with a sharp eye towards safety for the students and staff, improving the strength and stability of the structure while preserving the fabric of the original TLC Building. The result of this unique renovation project is a building where seamless learning principles are applied but also a facility that was completed through a seamless team delivery.

All facets of the build-out project were performed with a sharp eye towards safety, means and methods, scope, cost, schedule, quality and risk. The best part of this project, our design team and contractor brought this project in on time and under budget. The result is a unique build-out project where the design team and contractor overcame a significant structural challenge and produced a project that we are all proud to call a UWG success.

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RCRA Listed Wastes: Toxic, Acutely Toxic, or Merely Hazardous?

The Four RCRA Listed Wastes: the F-, K-, P-, and U-List

The Resource and Recovery Conservation Act (RCRA) has many different classifications in its regulations of the hazardous waste industry, including three classes of generators, four hazardous waste characteristics, and four listed categories of waste. Listed wastes are those that are related to certain manufacturing processes, pharmaceutical wastes, and unused chemicals and are set apart from other hazardous wastes.

The four RCRA listed wastes are the F, K, P, U list wastes. Knowing which of your wastes fits under what list allows you to better manage each of your waste streams.

For example, each waste on the four lists is hazardous. Although some may also go beyond the hazardous label, like the entirety of those the P-list, which are acutely toxic wastes, and those wastes on the U-list, which are toxic.

The F-List and K-List pertain to wastes that are generated during manufacturing processes that are carried out at a facility. The P-List and U-List of wastes are usually related to unused, expired, or spilled commercial chemicals.

Knowing which kind of waste you're generating will allow you to better handle, dispose, and treat it, not to mention will help with understanding the Environmental Protection Agency's (EPA) more stringent rules on manifests and [recordkeeping](#) that go along with certain listed wastes. For instance, generating just one kilogram of P-Listed acutely toxic waste automatically classifies a generator as a large quantity generator (LQG), which is subject to more regulation than a [small quantity generator](#) (SQG).

The F-List

The F-List of hazardous wastes are from nonspecific sources. This list covers processes from a wide range of sectors, including the manufacturing industry, government, and schools. These wastes can range from general solvent use to metal finishing industry wastes.

The F-List has seven distinct subgroups, including:

- Spent solvent wastes (F001 – F005)
- Wastes from electroplating and other metal finishing operations (F006 – F012, and F019)
- Dioxin bearing wastes (F020 – F023 and F026 – F028)
- Wastes from production of certain chlorinated aliphatic hydrocarbons (F024 and F025)
- Wastes from wood preserving (F032, F034, and F035)
- Petroleum refinery wastewater treatment sludges (F037 and F038)
- Multisource leachate (F039)

And though this is considered the more general list, there can be many F-listed wastes that can be quite specific. Healthcare facilities may also deal with some F-list wastes, such as acetone, methanol, toluene, xylene, and methylene chloride. The full record of all 39 wastes on the F-list can be found on the EPA's website here: 40 CFR §261.31.

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The K-List is divided into 13 different subgroups, including:

- Wood preservation (K001)
- Inorganic pigment manufacturing (K002 – K008)
- Organic chemicals manufacturing (K009 – K011, K013 – K030, K083, K085, K093 – K096, K103 – K105, K107 – K118, K136, K149 – K151, K156 – K159, K161, K174 – K175, and K181)
- Inorganic chemicals manufacturing (K071, K073, K106, and K176 – K178)
- Pesticides manufacturing (K031 – K043, K097 – K099, K123 – K126, and K131 – K132)
- Explosives manufacturing (K044 – K047)
- Petroleum refining (K048 – K052, and K169 – K172)
- Iron and steel production (K061 and K062)
- Primary aluminum production (K088)
- Secondary lead processing (K069 and K100)
- Veterinary pharmaceuticals manufacturing (K084 and K101 – K102)
- Ink formulation (K086)
- Coking (K060, K141 – K145, and K147 – K148)

A comprehensive inventory of all 148 K-List wastes, including those from iron and steel, inorganic chemicals, explosives, and veterinary pharmaceuticals, may be found here: 40 CFR §261.32.

The P-List and the U-List

Both the P-and-U-Lists govern unused pharmaceuticals, chemicals, and pesticides.

The **P-List** contains about 239 acutely toxic substances, with 135 different waste codes. This is because some waste codes will span several substances.

A few examples of those wastes on the P-List include:

Arsenic	P012	veterinary medicine, severe parasitic diseases
Arsenic Trioxide	P012	chemotherapy
Chloropropionitrile	P027	pharmaceutical synthesis
Cyanide Salts	P030	laboratory
Epinephrine	P042	emergency allergy kits, eye surgery, cardiac arrest

(The first column is the substance itself, the second its waste code, and the third column lists the substance's uses and applications)

U-List wastes are all toxic. Five examples of the wastes on this list include:

Acetone	U002	solvent in pharmaceutical formulations
Acetyl Chloride	U006	cholesterol testing
Acrylonitrile	U009	pharmaceutical manufacturing
Aniline	U012	pharmaceutical manufacturing



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Global Virus Network adds Emory University as newest Center of Excellence

The Global Virus Network (GVN) and Emory University announced Sept. 1 the induction of Emory as GVN's newest Center of Excellence. The GVN represents 37 Centers of Excellence and six affiliates in 25 countries and comprises foremost experts in every class of virus causing disease in humans. The network's mission is to combat current and emerging pandemic viral threats through international collaborative research, training the next generation of medical virologists, and advocacy.

The announcement was made by Robert Gallo, MD, co-founder and scientific director of GVN; Raymond Schinazi, PhD, DSc, the Frances Winship Walters Professor of Pediatrics and director of the Laboratory of Biochemical Pharmacology at Emory University; and Carlos del Rio, MD, the Hubert Professor and Chair of the Department of Global Health at the Rollins School of Public Health, professor of medicine in the Division of Infectious Diseases at Emory University School of Medicine, and co-director of the Emory Center for AIDS Research. Schinazi and del Rio will be co-directors of Emory's GVN Center of Excellence.

Emory is renowned for its leading research programs that focus on various viruses including HIV/SIV, hepatitis B and C, dengue, herpes, Zika, influenza, norovirus, Ebola, chikungunya and West Nile viruses.

"Emory has broad outstanding virology and immunology research programs, but when it comes to HIV I know of no place with more serious contributors to the field than those at Emory," said Gallo, who is co-discoverer of HIV and director of the Institute of Human Virology at the University of Maryland School of Medicine, a GVN Center of Excellence.

"From Ray Schinazi and Dennis Liotta's pioneering drug development, to Carlos del Rio and Susan Allen's important epidemiology, clinical and prevention research with some of the most vulnerable populations, to the molecular virology work of Eric Hunter and Cynthia Derdeyn, to the fundamental immunology of Max Cooper and Rafi Ahmed, to the critical studies on HIV pathogenesis of Guido Silvestri, to the vaccinology science research of Mark Mulligan and Rama Amara and unforgettably the tremendous contributions from James Curran on the early epidemiology of HIV. It is about time to have this great university as part of the GVN," Gallo said.

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Global Virus Network adds Emory University as newest Center of Excellence

Schinazi said it is an honor for Emory to be included in the Global Virus Network.

"We look forward to increased collaborations with researchers around the world that can lead to new therapies and preventive strategies for the many challenging viruses we face," he said. "Institutions and scientists who work together can accomplish a great deal more than can any researcher or organization working individually."

Numerous components of Emory's Woodruff Health Sciences Center (including the Emory Vaccine Center, the Emory Center for AIDS Research, Yerkes National Primate Research Center, the Emory Global Health Institute, Emory Institute for Drug Development, Tropical Infectious Diseases Program, Virology and Molecular Biomarkers Core, Atlanta Clinical and Translational Science Institute, Prevention Research Center), and the Emory schools of medicine, public health and nursing all have contributed to the development of successful programs in virology that span basic laboratory research, clinical research, and behavioral science. Emory University has established collaborations with other Atlanta-based universities including Georgia Institute of Technology (Georgia Tech Partnership) and Morehouse School of Medicine (Prevention Research Center).

"Our programs in virology, including education, research, and patient care, have contributed to lifesaving global advances, and we are very pleased to contribute our knowledge, expertise and partnership to the future efforts of the GVN," noted del Rio.

The GVN is a global authority and resource for the identification and investigation, interpretation and explanation, control and suppression, of viral diseases posing threats to mankind. It enhances the international capacity for reactive, proactive and interactive activities that address mankind-threatening viruses and addresses a global need for coordinated virology training, developing scholarly exchange programs for recruiting and training young scientists in medical virology. The GVN also serves as a resource to governments and international organizations seeking advice about viral disease threats, prevention or response strategies and GVN advocates for research and training on virus infections and their many disease manifestations.

Gallo also presented the Raymond Schinazi Distinguished Lecture on Sept. 1, discussing "Virus Epidemics with Special Emphasis on HIV and AIDS: Reflections on the Past and Prospects for the Future" at Emory's Health Sciences Research Building Auditorium.



Article By :
Woodruff Health Sciences Center

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UGA expands transportation options

In June 2016, the University of Georgia was awarded \$10 million from the state of Georgia to purchase 19 electric buses. The funding is provided by GO! Transit Capital Program, a competitive funding program administered by Georgia's State Road and Tollway Authority. UGA will provide \$5 million in matching funds.

The 40-foot electric buses emit no pollution directly, are quieter and have lower operating costs than existing diesel powered buses. The buses should arrive on campus in 2017 and are part of the university's strategic plan to advance campus sustainability. The buses will augment the university's existing fleet of 59 diesel buses and will replace the university's oldest buses. Compared to conventional diesel buses, the electric buses will reduce overall greenhouse gas emissions by 58%.

"We are grateful to Gov. Deal and the Georgia General Assembly for backing this important transportation initiative, and I thank the Go! Transit Capital Program for supporting our proposal," said UGA President Jere W. Morehead. "This significant investment will put the University of Georgia at the forefront of advancing innovative and cost-effective campus transportation."

UGA's Campus Transit system serves 11 million passengers a year-including UGA students and Athens community members. Buses in the UGA system, which is the state's second largest bus system in ridership behind Atlanta's MARTA system, drive a combined 900,355 miles a year. The new electric buses are expected to use 171,000 fewer gallons of diesel in a year. The battery-powered motors have simpler maintenance and could last for 20 years or more. Over the buses' lifetime, fuel and maintenance costs are expected to be 84 % less than those for diesel buses.

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The electric buses will provide opportunities for experiential education and research. Scientists and engineers in the UGA College of Engineering are working to develop fast charging and wireless charging technologies for electric vehicles, such as buses. The researchers are building a database of electric vehicle usage, operation and charge time data to develop a set of best practices.

Along with transit, UGA provides innovative bicycle programs to help make it safer, easier and more convenient to get to, from and across campus without need for a car. Facilities Management Division's Office of Sustainability manages the Bulldog Bikes campus bike sharing program and the ReCycle bicycle redistribution program.

Bulldog Bikes, launched in partnership with UGA Libraries in April 2015, provides bicycles free of charge to all members of the UGA community. Participants can check out a bike and helmet (just like a library book), ride it to class, meetings, home, downtown, etc. and return it to any campus station by close of business. Over 480 students, faculty and staff have signed up to ride.

The ReCycle program repairs and redistributes abandoned bikes to provide affordable transportation to students and employees in need. The program, supported by a team of student interns in the Office of Sustainability, is a collaboration with UGA Transportation and Parking Services and campus police. "While we'd like to see fewer bikes abandoned in our racks, it's rewarding to give some of them a new life with students who need a lift," said Jason Perry, Program Coordinator in the Office of Sustainability and leader of UGA's bike programs.

Article Provided By:

Ralph Johnson

Associate Vice President

UGA Facilities Management Department

rfj@uga.edu



For previous copies of "GAPPA News" newsletter, check online. We also have photos of previous annual meetings.

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Odman's new project will help us understand how prescribed burns impact health, air quality across the Southeast

When land managers in Florida or South Carolina or Georgia approve outdoor burns in their states, the resulting smoke doesn't float to the state line and stop.

Yet there's no unified way to track all of this burning across the Southeast and account for the resulting impacts on air quality and residents' health. It's especially an issue for a region where prescribed burns are the top source of fine particulate matter in the air.

School of Civil and Environmental Engineering researcher [Talat Odman](#) has just [secured funding to help address the problem](#), bringing together all of the prescribed burn data from a region stretching from Texas to Virginia.

With support from the federal [Joint Fire Science Program](#), the U.S. Forest Service, Georgia Tech and North Carolina State University, Odman and his team will marry the burn data with air quality data and cutting-edge computer modeling to understand the full impact of prescribed burns on air pollution and people's health.

It's a system Odman says will help land managers better plan prescribed burns and public health organizations better protect populations vulnerable to particulate matter in the air, such as the elderly, the very young, and people with existing respiratory problems.

"We want to optimize burns — which have higher demand than supply — and air quality at the same time," Odman said.

In Georgia, for example, any open burning requires a permit from the Georgia Forestry Commission, and most burning is banned from May through September in the state's most-populated areas. The burns are important to maintaining healthy ecosystems and preventing out-of-control wildfires, but Odman said the commission can't keep up with requests.

There's so much demand in Georgia to burn, they cannot respond to all of it. Applications come in [to burn] 2 million acres a year, and last year they issued permits for slightly over 1 million acres," he said. "So they could easily double the capacity.

"We're looking at new windows of opportunity. If we had the regional forecast [we're devel-

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Casey Charepoo

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Odman's new project will help us understand how prescribed burns impact health, air quality across the Southeast

The first hurdle for the two-year, \$400,000 project will be to pull together data in 13 southern states that all have different systems for outdoor burning, Odman said. Plus, state applications may only account for private landowners, not federal lands owned by the military or the U.S. Forest Service.

"The burn information is in different places, so pulling it together is going to be a challenge, even in Georgia, where we have been working for some time," Odman said. "With other states, we don't even know [what we're facing]."

So far, Odman's group, which includes Fernando Garcia Menendez at North Carolina State University and Cassandra Johnson with the U.S. Forest Service, has commitments from Georgia, North Carolina and South Carolina to participate. Initially, they plan to gather data from 2010 to 2015, adding 2016 and 2017 burns as the information becomes available.

"We hope that we establish a dynamic way of updating the data every year," Odman said. "Whoever our collaborators are in each state, they just upload their data and it's all updated in a central location."

Odman said he hopes at the end of the two years, foresters, industry, and health officials see enough value in the centralized data and forecasting models to help pay for the system's continued operations.

"We hope that it stays alive for the future and it's not just one period in time that we studied."

Article By: Talat Odman



For previous copies of "GAPPA News" newsletter, check online. We also have photos of previous annual meetings.

October 7, 2016



Team building – *It is a collective term for various types of activities used to enhance social relations*

and define roles within teams, often involving collaborative tasks.

Teambuilding is critical to the moral of the team, it builds trust, encourages communications and improves collaboration. Effective teambuilding means more engaged employees. Around 65 staff members of Clayton State University Facilities Management participated in annual teambuilding day.



The Teambuilding event was a relaxing day away from office, involving departmental updates, guest speakers, and enjoyable group activities combined with lunch for all staff members. The event was organized at the Forest Park community center and started with welcoming the members, a light breakfast and followed by a motivational and especially engaging presentation by guest speaker Casey Charepoo. Mr. Charepoo is Associate Director, Infrastructure & Plants, Facilities Management, Georgia Institute of Technology.

His interactive presentation style kept the audience engaged throughout the presentation. Mr. Charepoo talked about the importance of team, working with various personalities in a team setting, styles of leadership, difference between leading and managing and he often used examples from his personal and professional experiences. He had many interesting stories to share, compelling analogies that were very well suited for the members of the Facilities Management team. He talked in depth about the importance of personal and professional development, discussed the details of various resources available through The Georgia Association of Physical Plant Administrators (GAPPA) and other related organizations to staff members. The guest speaker Mr. Charepoo presentation was very well received by the Facilities Management team, this was preceded by comments from Ms. Corlis Cummings, VP of Business and Operations. She emphasized the importance of team, working as one, working towards one goal and get to know each other better. This was followed by a group photo session and fun team building activities.

Team building activities included

1. Yurt Circle challenge, this activity involved everyone standing in a circle holding the rope as team. This challenge showcased the symbol of a circle that means there is only one team



and that everyone is equal, life is a constant balancing act when working with other people. Sometimes there is need to pull more and sometimes need to let go, just like when in the circle. The activity focused on the trust factor and led to the discussion of why it is easier to trust some and not others and how trust can be improved in a team.

2. Hula Pass game, demonstrated through teamwork,



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communication and cooperation. The group was tasked to pass hula hoops in a circle, from person to person, while holding hands.

This game helped improve communication, cooperation, and teamwork and practiced coordination, creativity, paying attention, and problem solving.

3. Toxic Waste, while equipped with a bungee cord and rope, each group had to work out how to transport a bucket of "Toxic Waste" and tip it into the "neutralization" bucket. Toxic Waste was used to highlight almost every aspect of teamwork and leadership. Everyone had to work together to get the balls from one bucket into the other without spilling (or failing the task).

This exercise naturally exposed processes and issues related to many aspects of teamwork, including cooperation, communication, trust, empowerment, risk-taking, support, problem-solving, decision-making, and leadership.

4. Number Puzzle, members were divided in teams and had to develop a strategy to tag the randomly placed numbers in the fastest time. This challenge was modeled to practice strategic skills, time management, planning, observation and problem solving skills.

Team members were eager, collaborative and at times competitive and thoroughly enjoyed the event. The teambuilding was wrapped up by a lunch and departmental updates. Facilities Management team building provided a great opportunity to spend time with co-workers by developing rapport, getting to know each other better, improving communication, solving problems and enjoying the day with fun teambuilding activities.

Special Thank You

Jeffrey Eady, *Director of Public Works, Forest Park*

Casey Charepoo, *Associate Director, Infrastructure & Plants, Facilities Management, Georgia Institute of Technology*

Corlis Cummings, *Vice President, Business & Operations, Clayton State University*

Nicholas Kilburg, *Director of Recreation & Wellness, Clayton State University*

Spenser Emerson, *Recreation & Wellness, Clayton State University*

TEAMWORK
coming together is a beginning
keeping together is progress
working together is success
- Henry Ford

Article by **Priti Bhatia**, Project Manager, Facilities Management, Clayton State University



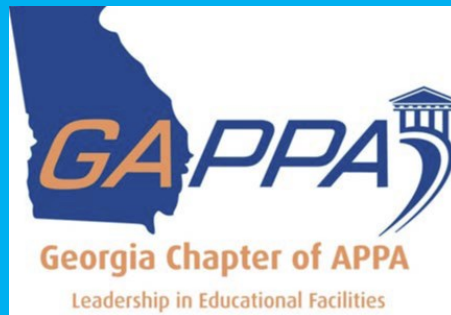
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2017 GAPP A ANNUAL MEETING AND TRADE SHOW

Maximizing Your Resources: People, Products, and Processes



2017 GAPP A ANNUAL MEETING AND TRADE SHOW
JEKYLL ISLAND CONVENTION CENTER JEKYLL
ISLAND, GA MAY 27 – MAY 31, 2017

Newsletter Committee Chair and Editor:
Casey Charepoo
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2017 GAPPA ANNUAL MEETING AND TRADE SHOW

JEKYLL ISLAND CONVENTION CENTER JEKYLL ISLAND, GA

GAPPA Members:

Get ready, because the 34th annual GAPPA conference is almost here! I am excited to invite you to join us on Jekyll Island to experience some good fellowship and a great educational experience. Bring your family, because there will be time for fun in the sun and plenty for you all to do on Jekyll. Our conference dates this year are May 27 through May 31, 2017, with the Exhibitor Trade Show Hall open right in the middle on May 28th & 29th in the Jekyll Island Convention center right on the beach.

Our theme this year is “**Maximizing Your Resources: People, Products, and Processes**”. Our conference will focus on just how these three topics relate to each other, and how important it is in having the right combination of all for the successful operation of any facility. Be it a physical or mental job, if you put the *right person* in place using the *right tools* in the *right way*, they can accomplish any task efficiently. At GAPPA you will hear from experts and your peers at other educational institutions about the latest and most efficient ways to outfit, organize, and operate your facilities. Have a particular issue at your institution that is troubling you? Chances are that one of the educational sessions may deal with it, or one of the attendees from another institution at GAPPA has dealt with the same issue before and can help you solve it. Looking for a better way to clean, more efficient HVAC system, better lighting, new design for a building, or even help with emergency repairs after a storm? GAPPA has over 100 exhibitors and sponsors that will be there to help you with all of this and more.

We recognize that institution budgets, in particular travel and hotel funding, can sometime be obstacles, so we have again approved and set aside funding for stipends this year to help support your travel and stay for the **2017 GAPPA Annual Meeting and Trade Show**. The stipends provide up to \$800 per individual, with a maximum of two stipends allowable per institution, to support travel and/or lodging for members. I encourage you to apply early for a stipend, as there are a limited number of stipends available. Complete details are listed in the pages following.

So, please plan on joining us and even invite a co-worker to this exciting and beneficial opportunity including:

- A broad spectrum of **educational sessions**,
- **Keynote speakers** representing national APPA,
- Opportunities for **peer networking**, and
- A chance to learn the latest **industry innovations** from business partners.

We look forward to seeing you all on Jekyll Island!

Harbin Farr

President, GAPPA 2017

For previous copies of “GAPPA News” newsletter, check online. We also have photos of previous annual meetings.

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2017 Stipend

Travel Stipend Directions

GAPPA is offering travel stipends for up to \$800 per individual and up to \$1600 per institution to support travel and/or lodging for members who attend the GAPPA Annual Meeting and Trade Show.

Application Guidelines

Travel Stipend application deadline is April 21, 2017

E-mail application to gappareg@gmail.com

Brief Description of Need (e.g. Member institution has no money budgeted for travel expenses due to current financial situation, or will enable additional attendee from institution)

Expenses the Travel Stipend Covers

Mileage to and from member institution to Jekyll Island at current GA rate

Hotel lodging (single room rate)

Meals not included at event

Expenses NOT Included in the Travel Stipend

Conference registration fees

Membership dues

General Eligibility (Institution must be current on dues)

Applicant must be current employee of a member institution.

Applicant must also complete and submit the member registration form for the 2017 GAPPA Annual Meeting & Trade Show. [Stipend application does not constitute registration for conference.](#)

Reimbursement to Member Institute

Reimbursement will be post Annual Meeting and Trade Show

Submit request by e-mail to gappareg@gmail.com

Requests must be received by July 28, 2017

Note: Travel stipend applications will be taken on a first come basis and will be approved based on description of need. Total allocation is limited to 30 stipend allowances.

For previous copies of "GAPPA News" newsletter, check online. We also have photos of previous annual meetings.

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2017 Stipend

Travel Stipend Application

1	Name and Title:	
2	Institute:	
3	Address:	
4	Address:	
5	City, State, Zip:	
6	Email:	
7	Telephone:	
8	Description of need:	

Other Information (not required for application)

1	1 Most recent GAPPA Annual Meeting you attended (year)?	
2	2 Number of other individuals attending the 2017 Annual Meeting from your institution?	
3	3 Are you an APPA representative, associate member or neither?	
4	4 Did you receive a travel stipend for the 2016 Annual Meeting?	

For previous copies of "GAPPA News" newsletter, check online. We also have photos of previous annual meetings.

2017 GAPPA ANNUAL MEETING AND TRADE SHOW

Guest Tour

2017 GAPPA ANNUAL MEETING AND TRADE SHOW

Dolphin Guest Tour

Tuesday, May 30, 2017

Departs from the Jekyll Wharf

8:30 - 10:00 a.m. (8:15 check-in)

Tour is limited to the first 32 guests to register. Those purchasing guest package have first priority.

Cost

With Guest Packages \$0 (included in reg. fee)

Adult Tour Only \$25

Child Tour Only \$10 age 12 and under
(Age 16 & under must be accompanied by an adult)

Lunch - 12 pm at the Convention Center, with GAPPA attendees

See dolphin frolicking in their natural habitat as you explore the marshes, the sound and tidal rivers. Comfortable, shaded tour boats offer plenty of move-about room to get a great view of these delightful creatures. The captain and crew share an entertaining overview of our coastal environment, captivating young and old alike on this wonderful water excursion -- see you on board!

Our ever-so-popular 90 minute narrated adventure is a "must-do trip"! Participate with the crew in our dolphin survey and learn about these playful creatures of the sea. Our boats are sun protected and USCG certified with restrooms aboard.

Bring Your Camera, Bottled Water and Sunscreen



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Proposed Educational Sessions (Subject to change)

Saturday, May 27, 2017

2:00 - 2:55 pm	Guaranteed Energy Savings Performance Contract Project	Don Alexander, Georgia Institute of Technology
3:00 - 3:55 pm	Combining Your Resources: Chilled Water, Hot Water, and Steam Reliability Issues	Art Frazier, Spelman College, Bonita Dukes, Clark Atlanta University Vic Clements, The University Financing Foundation, Inc.
4:00 - 4:55 pm	Maximizing Resources: Utilizing VRF Technology to Address Energy Efficiency, Indoor Air Quality, and Occupant Comfort Control in a Renovation	Randy Rimes, Georgia State University Van Lynn, POND

Monday May 29, 2017

1:30 - 2:30 pm	Update on the Living Building at Georgia Tech	Gary Jelin, Georgia Institute of Technology Joe Greco, Lord Aeck Sargent
	Consultant Interviews: Do's & Don'ts	Sheree Wilder Shrader and Fred Ricketson, University of West Georgia
2:45 - 3:45 pm	Networking: Informal Discussion on Facilities Maintenance Topics	Ray Sable, Valdosta State University

Tuesday May 30, 2017

8:00 - 9:00 am	Water Intrusion Events: Augusta University Multi-department Process	Mark Williams, James Baker and Lisa Jan Wooldridge, Augusta University
	The State of Facilities: Today's Challenges and Best Practices to Overcome Them	Keith Williams, Atlanta Metropolitan State College Bob Hisey, Georgia Southern University Mike Schelke, Sightlines, a Gordian Company
9:30 - 10:30 am	Envelope Commissioning	John Jefferson, Georgia State Finance and Investment Commission. Darren Draper, Epsten Group
	Improving the Design Review Process with Web-based Collaboration	Joshua Mallory and Tyler Alsen, University of Georgia
11:00 a - 12:00 p	The Cutting Edge in Sustainable Cleaning Technology: An enabler of change for positive effects to your bottom line	Allen Wilbanks, Georgia State University Jack Adelman, SouthEast Link
	Quality Assurance Inspection Program	Stanley Smith, Wendy Welker, and William Lipscomb, Georgia Institute of Technology
1:00 - 2:00 pm	Utilizing Innovative and Sustainable Cleaning Processes to Improve HVAC Equipment	Mark Williams, Augusta University Nate Lincoln II, Green Air Environmental, LLC
	Traditions and Transformations, the Glenn and Towers Residence Hall Renovation Project at Georgia Tech	Gary Jelin, Georgia Institute of Technology Todd Dolson, Stevens & Wilkinson
2:30 - 3:30 pm	ADA Compliance: Common Compliance Issues	Alan Sanderson, Valdosta State University Keith Brokman and Ed Bernard, Marx-Ocubo
	Case Study: Georgia Highlands College, Floyd Campus Repositioning Plan	Jeff Davis, Georgia Highlands College George Flynn and Lars Finderup, Flynn Finderup

Proposed Schedule

Saturday, May 27, 2017

- 12:00 pm - 6:00 pm • Registration
- 2:30 pm - 5:00 pm Pre-Conference Workshops

Sunday, May 28, 2017

- 7:30 am - 2:30 pm Golf Tournament
- 9:00 am - • Tennis Outing
- 12:00 pm - 6:00 pm • Registration
- 12:00 pm - 6:00 pm • Hospitality Suite/Cyber Café
- 3:30 pm - 6:30 pm • Trade Show Open
- 6:30 pm - 7:00 pm • Cocktail Reception
- 7:00 pm - 8:00 pm • Exhibitor Appreciation Dinner
- 8:00 pm - 10:30 pm Casino Night (must be 18 years or older to participate)

Monday, May 29, 2017

- 9:30 am - 2:45 pm • Registration
- 8:30 am - 9:30 am • Opening Breakfast and Annual Business Meeting
- 9:30 am - 3:30 pm • Hospitality Suite and Cyber café
- 9:30 am - 12:30 pm Trade Show
- 12:30 pm - 1:30 pm Lunch—Attendees and Exhibitors
- 1:30 pm - 2:30 pm Educational Sessions A or B

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Proposed Schedule Continue

Tuesday, May 30, 2017

8:00 am - 2:30 pm	Registration
8:00 am - 3:00 pm	Hospitality Suite and Cyber café
8:00 am - 9:00 am	Educational Sessions A or B
9:30 am - 10:30 am	Educational Sessions A or B
11:00 am - 12:00 pm	Educational Sessions A or B
12:00 pm - 1:00 pm	Lunch—Attendees
1:00 pm - 2:00 pm	Educational Sessions A or B
2:30 pm - 3:30 pm	Educational Sessions A or B
5:00 pm - 6:00 pm	Social Hour (Beverages and Games)
6:00 pm - 8:00 pm	Family Cookout and Entertainment

Wednesday, May 31, 2017

8:00 am - 9:30 am	Closing Breakfast and APPA Update
10:00 am - 12:30 pm	Experience Exchange
1:00 pm - 5:00 pm	CEFP and EFP Credentialing Group Exam

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GAPPA 2017 Exhibit Booth

Company	Booth #	Company	Booth #
Spencer Bristol Engineering	1	Sheridan Construction	26
Club Car, LLC	2	Lyman Davidson Dooley	27
Victaulic Company	3	United Consulting	28
Georgia Safe Sidewalks	4	NBP Engineers, Inc.	29
Geo-Hydro Engineers, Inc.	5	IPG, Incorporated	30
Prime Contractors Inc	6	Century Fire Protection	31
Pond	7	Ace Technologies	32
The Whiting-Turner Contracting Company	8	Holden & Associates	33
CIC, Inc.	9	Holden & Associates	34
Tandus Centiva	10	OFS Brands	35
Southeast Pump & Equipment, Inc.	11	JOHN PORTMAN & ASSOCIATES	36
Wakefield Beasley & Associates	12	Carotek, Inc.	37
Ajax Building Corporation	13	KSi/Structural Engineers	38
Expert Consultations, LLC	14	Savannah Construction and Preservation	39
MSC Industrial Supply	15	Savannah Construction and Preservation	40
Wallace Engineering	16	Griffith Engineering, Inc	41
Foresite Group, Inc.	17	Allstate Construction Group, Inc.	42
Raymond Engineering-Georgia, Inc.	18	Strategic Facility Solutions	43
North Ridge Restoration, LLC	19	Albion Scaccia Enterprises, LLC	44
Gainesville Mechanical, Inc.	20	Gleeds	45
Blackmon Mooring/BMS CAT	21	Travis Pruitt	46
Aquatherm	22	Level Creek Property Restoration	47
Goode Van Slyke Architecture	23	Centennial Contractors Enterprises Inc.	48
Trilogy FM	24	Juneau Construction Company	49
Southern Lock and Supply Co.	25	Harry Warren of GA	50

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Casey Charepoo

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GAPPA 2017 Exhibit Booth

Company	Booth #	Company	Booth #
Green Air Environmental, LLC	51	Cooper Carry	76
Michael E Clark And Associate	52	Mingledorffs	77
CLASSIC GROUNDCOVERS, INC.	53	Mingledorffs	78
Bradfield Richards Rhodes & Associates Architects	54	Pieper O'Brien Herr Architects	79
Turner Construction	55	Calloway Engineered Systems	80
Sika Corporation	56	Interface	81
Hussey Gay Bell	57	Flynn FINDERUP Architects	82
Daikin Applied	58	Boiler Supply Company	83
Daikin Applied	59	Control Concepts LLC	84
SP Design Group	60	Trane	85
RMF Engineering, Inc.	61	Trane	86
HD Supply	62	Automated Logic - Georgia	87
Osprey Management LLC	63	JMA Architecture, Inc.	88
Carroll Daniel Construction Co.	64	Borie Davis Inc.	89
Full Circle Restoration	65	2WR + Partners	90
Clark Nexsen	66	Rochester & Associates, Inc.	91
Stanley Security Solutions	67	Heat Transfer Systems of Georgia, LLC	92
Miracle Method Surface Refinishing	68	John Q. Bullard Assoc. Inc.	93
Winter Construction	69	Siemens Industry	94
Dyson, Inc.	70	Georgia Power	95
CDH Partners, Inc.	71	Georgia Power - Energy Services	96
ISES CORPORATION	72	Georgia Power - Power Services	97
Parrish Construction Group	73	Johnson Controls	98
Farnsworth Group	74	Johnson Controls	99
KIMBALL OFFICE	75	Andrews, Hammock & Powell, Inc	100

Newsletter Committee Chair and Editor:

Casey Charepoo

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GAPPA 2017 Hotels

Hotel Rates

Consult with individual hotels regarding "Minimum Stay Requirements, Resorts Fees, Cancellation Fees, Etc."

Hotel Name	Dates	Type of Rooms	Per Night Rate
Embassy Suites, Brunswick 912-264-6100 Hotel Link	May 26 – May 31	King Suite	\$149.00
Holiday Inn Resort 912-635-2211 877-834-3613 Hotel Link	May 26 – May 31	Islandview Guestroom Oceanview Guestroom Oversized Oceanfront Guestroom Ocean Front Suite	\$180.00 \$205.00 \$235.00 \$275.00
Hampton Inn & Suites 912-635-3733 800-426-7866 (Group #GA2)	May 26 – May 31	Standard Room Studio Suite	\$189.00 \$209.00
Jekyll Island Club Hotel 800-535-9547 912-635-2600 (Group # 91447)	May 26 – May 31	Club Double Club Queen Traditional King Deluxe King Suites: Annex King Jacuzzi Club Deluxe	\$199.00 \$229.00 \$259.00 \$289.00 \$319.00 \$339.00 \$359.00 \$389.00
Quality Inn & Suites *Renovations underway with expected completion in May* 912-635-2202	May 26 – May 31	Deluxe w/ 2 Queens Efficiency w/2 Queens One Bedroom Suite Two Bedroom Suite	\$124.00 \$124.00 \$160.00 \$180.00
Sea Palms Resort, St. Simons 800-841-6268	May 26 – May 31	Double Deluxe Room Executive Studio	\$165.00 \$185.00
Villas by the Sea 800-841-6262	May 26 – May 31	Mini Villa/Studio Islandside 1 Bedroom Islandside 1 Bedroom Oceanside 2 Bedroom Islandside 2 Bedroom Oceanside 3 Bedroom Islandside 3 Bedroom Oceanside	\$149.00 \$164.00 \$174.00 \$229.00 \$249.00 \$309.00 \$319.00
Westin Jekyll Island 912-635-4545 888-627-8316 Hotel Link	May 26 – May 31	Island View	\$229.00

APPA Credentialing Group Exam
at the GAPPA Conference

May 15, 2017
Jekyll Island, GA

Email Kelly@appa.org to reserve your seat.
space is limited!



Credentialing Group Exam - Register Today! Space is limited!

Are you planning to attend the GAPPA 2017 Conference in Jekyll Island, GA, May 27-31, 2017? Have you been thinking about attaining the CEFP or EFP credential? Now you can take your exam AND attend the conference, because an APPA credentialing group exam will be offered on Wednesday afternoon, May 31. To help you prepare for the exam, APPA offers an online study program that's easy to use, with feature like flash cards, practice quizzes, and learning modules. Additionally, Customized Interactive Learning (CIL) groups -- led by qualified facilitators -- will help you master the material to ensure you are ready to take the exam. Contact Kelly Ostergrant to secure your seat for the exam and register for the credentialing course. Space is limited, so **reserve your seat TODAY!** **DISCOUNTED RATES!** Take advantage of the SIGNIFICANTLY discounted (in some cases FREE) prep course rates being offered right now for members of both APPA and your region. Find more information on the purchase page of the **Credentialing website.**



**Group Exam Details:
GAPPA Conference
Jekyll Island, GA**

May 31, 2017

Testing will begin
at 1:00 p.m.

You must bring a laptop
to take the exam.

**Preregistration for
this event is required!**

WORRY-FREE! Exam candidates who register for this group exam event will have the opportunity for a "free re-take exam" within 30 days if they do not achieve a passing score on May 31, 2017.

APPA: Leadership in Educational Facilities

1643 Prince St. • Alexandria, VA 22314 PH: 703-684-1446 • FAX: 703-549-2772 Web: www.appa.org

Credentialing Coordinator: Kelly Ostergrant PH: 703-542-3835 Email: kelly@appa.org