Thank you to our event Patrons!
Upcoming Events

October 2
Engineering Excellence Awards – Intention to Submit Due

October 8
ACEC/MW MD & VA Municipalities Virtual Event

October 14
ACEC/MW Scholarship Golf Tournament
1757 Golf Club in Dulles, Virginia

October 20
VDOT NOVA District LAP-MAP & NVAP Training

October 21
Wine Down Wednesday

Visit acecmw.org for more info and to register
MODERATORS

ACEC/MW Facilities Committee Chair
Kyle Urda

AND

ACEC/MW Executive Director
Mac Cannon
MEETING AGENDA

9:00 - 9:10am – ACEC WELCOME & INTRODUCTION
  - Mac Cannon - ACEC/MW Executive Director
  - Pedro Capestany – ACEC/MW President

9:10 - 10:15 – SPEAKER PRESENTATIONS
  - University of Maryland
  - George Mason University
  - Virginia Tech

10:15-10:30am – MODERATED PANEL DISCUSSION & CLOSING REMARKS
  - Mac Cannon - ACEC/MW Executive Director
SPEAKER

University of Maryland
Bill Olen - Executive Director of Planning & Construction
University System of Maryland (USM) Service Centers

**UMD College Park**
- Bowie State University
- Frostburg State University
- **UM College Park (Flagship)**
- UM Eastern Shore
- Salisbury University
- UM Center of Environmental Science
- UM University College
- University System of Maryland

**UMB Baltimore**
- Towson
- Coppin State
- University of Baltimore
- UMBC
UMD Facilities Management (800+ staff)

- Departments
  - Building & Landscape Maintenance
  - Planning & Construction
  - Facilities Business Operations
  - Operations, Maintenance & Utilities

Website: www.facilities.umd.edu
Department of Planning & Construction

- Executive Director: William Olen
  - **Director Facilities Planning**
    - Campus Development
    - Space Usage
    - Site Planning
  - **Associate Directors**
    - UMD and Client Institution Projects
    - Design Services
    - Technical & Administrative Support
  - **Staff: ~115**
    - 21 members of departments staff are LEED certified professionals, 5 are also Green Globes professionals.
    - >30 professional architects, landscape architects and engineers on staff
Department of Planning & Construction

Leadership for the Department

• Kris Philips - Director of Facilities Planning
• Arshad Mughal – Associate Director of Capital Budgeting
• Dan Pierce - Associate Director of Project Management
• Enrique Salvador - Associate Director of Project Management
• James Cleary - Associate Director of Quality Assurance
• Tom Bunting - Associate Director of In–House design
• Nisa Aduwu – Assistant Director of Operations
Planning & Construction

- Projects across the state, half of dollar value at UMD
- New construction and major building renovations
- 56 Capital projects valued at $2.8B
- 4 Active projects valued > $100M

Construction Methods:
- Construction Management at Risk (USM requirement for any project >$10M)
- Design/Build
- Design/Bid/Build
- JOC
- On-call contracts (CM@R, D/B and GC)
• Capital Projects > $100M include:
  – UMD Cole Field House Renovation $205M (CM@R)
  – UMD Housing/Dining $176M (D/B)
  – UMD Chemistry Wing 1 Replacement $118M (D/B)
  – BSU Communication Building $148M (D/B)
Idea Factory @ UMD
D/B team of Clark and EYP
Open-Ended Contracts

- **Civil/Structural Design**
  - Current Vendors: AMT, WBCM, RK&K, WMA
  - Expiration Date: 7/2/2021

- **CM @ Risk**
  - Current Vendors: Coakley/Williams, JV Schaffer, Kinsley, Plano-Coudon, Whiting/Turner, DPR
  - Expiration Date: 12/7/2021

- **Design/Build**
  - Current Vendors: Coakley/Williams, Brawner, Jeff Brown, JVS, Whiting/Turner
  - Expiration Date: 5/10/2022

- **Full Service A/E**
  - Current Vendors: WRA, JMT, HCM, Murphy/Ditenhafer, GWWO, HDR
  - Expiration Date: 6/21/2022

- **SBR A/E**
  - Current Vendors: Penza/Bailey, JRS, Louviere, Stratten & Yokel, Newman, Waldon
  - Expiration Date: 6/21/2022

- **SBR MEP Design**
  - Current Vendors: Weigand, Muller, Kibart, Gipe
  - Expiration Date: 8/15/2022

- **MEP Design**
  - Current Vendors: Henry Adams, CFR, Kibart, MS Engineering, WRA
  - Expiration Date: 4/18/2023
Active solicitations

• UMD – D/B for academic building on Solomon's Island

Upcoming solicitations in 2020

• SU – CMAR for Housing Project ~ $85M
• Civil/Structural IDC/IDIQ
• SU – Renovation of an academic building ~$ 10M

Forecast for state and USM budget

• UMD - Future Research Bldg., will know in early 2021
• USM – Available funding constrained
USM A/E Selection Procedure

Project Approach (Quality Based Selection/ QBS)

- Phase I – Portfolio review
- Phase II
  - Documentation (330s, etc.)
- Phase III
  - Interview/Oral Presentation (if documentation is complete)
- Phase IV
  - Fee Negotiation with top ranked firm

- Goal is that the process is completed in ~ 8 months
UMD D/B Selection Approaches

Lump Sum with bridge documents

• Typical on smaller projects less than $5M (Bridge documents)

Two GMP Options on our larger solicitations

• **Phase I** – Technical/portfolio review
  ▪ Documentation (330s, etc.)

• **Phase II**
  ▪ Interview/Oral Presentation (if documentation is complete)

• **Phase III (Option A Best Value Selection)**
  ▪ Request fees from highest qualified teams, technical and price determine winner.

• **Phase III (Option B QBS Selection)**
  ▪ Fee Negotiation with top ranked firm
• Why the shift to D/B? **Risk to the Team!**
  – Schedule development, what's reasonable?
  – Cost volatility: Tariffs, **COVID**, storms.....
  – How much design is needed for the builder to bid?
  – Bidding climate?
  – Bid Package development: Need skill and judgment
  – Timing for advertising: How long before actual work will start for trades? Too early = contingency in bids
  – Ability of trades to put in place designed systems
• Use of *E-Builder* software as the Project Management tool for the entire program including all prime vendors

**Procurement Opportunities**

• Register with eMaryland Marketplace

Contact information:
Office: 301-405-7336
E-mail: wolen@umd.edu
SPEAKERS

George Mason University

Carol Dillon Kissal, MBA. – Senior Vice President of Administration & Finance
Purpose

- About George Mason University
- Expansion and Growth
- Opportunities for Partnerships
About Mason

- Largest public research university in Virginia
- 37,000 students from 130 countries, 50 states
- 85 undergraduate programs, 89 master’s, 39 doctoral, 1 law
- Top ranked public university in Virginia & 15th nationally for ethnic diversity*
- Ranked 35th for educational innovation*

*U.S. News 2021 Best College rankings
The University Master Plan will be a decision-making framework for the use of physical space at our Fairfax, Arlington, and Science and Technology campuses, and support Mason's mission for decades to come.
Master Planning Process

Phase One: Programming: January 2020-September 2020

Phase Two: Planning: October 2020-September 2021

- Internal & External Stakeholders
  - Senior Leadership & Steering Committee
  - Staff, Faculty, Students & Alumni
  - Community Leaders & Constituents

- Engagement & Outreach
  - Monthly Town Halls
  - Stakeholder Interviews & Meetings

- Data Collection and Analysis
  - Demographics Analysis & Projections
  - Interactive Web Site
  - CoMap Survey: 4,750 responses
CoMap: On Campus Mobility

Drive:  
Walk:  
10-minute walk
Course Enrollment: Freshman
Course Enrollment: Seniors & Seniors Plus
Fairfax: Facility Condition Index

- Fairfax E&G: 22.2%
- Fairfax housing and dining: 8.5%
Arlington Campus: Traffic

Ballston-MU Station
Average daily entry: 10,000*

Virginia Square Station
Average daily entry: 4,000*

Clarendon Station
Average daily entry: 4,800*

* Source: https://www.wmata.com/initiatives/ridership-portal/Rail-Data-Portal/item.html/content, calendar year 2019-2020

George Mason University | Slide 35
Arlington Campus: Zoning

- Commercial, office, retail, hotel
- Mixed use
- Special use

George Mason University | Slide 36
- **Arlington Campus: Recent & Ongoing Projects**

- **GMU demolition and IDIA Building**
  - Retail + office + 136 units residential
  - Approved 2014

- **119 units residential**
  - Approved 2017

- **Retail + 330 units residential**
  - Approved 2015

- **Renovation + retail + office + residential**
  - Approved 2015 and 2016

- **Retail + office + 244 units residential**
  - Approved 2016

- **Retail + office + 255 units residential**
  - Approved 2019

- **Retail + office + 584 units residential**
  - Approved 2019

- **Retail + office + 255 units residential**
  - Approved 2019

- **160 units residential**
  - Approved 2019

- **Retail + office + 160 units residential**
  - Approved 2019

- **Retail + office + 136 units residential**
  - Approved 2019

- **Retail + 330 units residential**
  - Approved 2015

- **Renovation + office + retail**
  - Approved 2018

- **Retail + office + 136 units residential**
  - Approved 2019
Institute for Digital InnovAtion (IDIA) HQ

- Home to Institute for Digital InnovAtion and new School of Computing
- Pipeline for Tech Talent in Virginia
- New 505,520 GSF building on Arlington Campus
  - 225,000 GSF university innovation programming
  - 120,000 GSF innovation programming by developer and partners, largely office
  - 15,000 GSF retail amenities
  - 146,000 GSF parking
- Public-Private Education Development
  - Currently in detailed RFP phase to select partner
  - Proposals due October 20, 2020
- Anticipated Total Cost: $242,500,000
  - Mason Component: $158,500,000
NOVA Demographic Trends

- NOVA population growth has fueled Mason enrollment growth
  - More than half of Mason freshmen students from NOVA
  - 96% of community college transfer students to Mason from 3 community colleges serving NOVA in 2018
  - 72% of Mason graduating class in 2018 from NOVA

- Current trends will impact Mason enrollment in next twenty years:
  - Birth rates declined both nationally and in Virginia since 2008 recession
  - NOVA birth rates have declined in last few years, slowing its 2010s growth rate
  - Fewer people moving to NOVA due to slower economic growth in DC area
Virginia Labor Market Demand Analysis 2016-2026

- 35% of jobs in 2026 will require at least bachelor’s degree, compared to 33% in 2016
- Human Services (23%), Health Sciences (18%) and Information Technology (17%) to experience fastest growth
- Business Management & Administration occupational cluster projected to add most jobs in ten years (37,000), followed by Information Technology (33,000) and Health Sciences (27,000)
Master Planning Timeline

**2020**
- Jan – Apr: Information gathering & analysis
- May – Jul: Information synthesis & sharing
- Aug – Sep: Programmatic scenario exploration
- Key date: Sep: Select scenarios for detailed investigation

**2021**
- Oct – Mar: Detailed design exploration of selected scenarios
- Apr – Jul: Plan synthesis
- Key date: Mar: Select preferred direction
- Key date: Jul: Finalize plan elements
## Commonwealth Investment

<table>
<thead>
<tr>
<th></th>
<th>FY2017</th>
<th>FY2018</th>
<th>FY2019</th>
<th>FY2020</th>
<th>FY2021</th>
<th>FY17-FY21 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Capital Grants</td>
<td>$57.8</td>
<td>$48.9</td>
<td>$33.7</td>
<td>$63.0</td>
<td>$65.0</td>
<td>$268.4</td>
</tr>
<tr>
<td>TTIP Capital Grants</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$97.5</td>
<td>$97.5</td>
</tr>
</tbody>
</table>

*Totals in millions*
Mason Tomorrow

- Public-Private Partnerships
  - On campus presence & collaboration
  - Faculty housing
  - Campus retail & amenities
  - Sustainability initiatives
  - Tech talent pipeline

- Future of Instruction
  - Virtual and physical campus infrastructure

- Future of Work
  - Workforce deployment and footprint

- Connect with Mason
  - Internships, sponsorships, competitions & job fairs
SPEAKER

Virginia Tech
Bob Broyden - Associate Vice President for Capital Assets & Financial Management
Virginia Tech Capital Outlay Program

Bob Broyden – Associate Vice President for Capital Assets & Financial Management
Virginia Tech Facility Assets

- Number of Buildings – 1,100
- Total Gross Square Feet – 14,128,000
  - Owned – 11,855,000
  - Leased – 2,273,000
Capital Projects are defined as any project greater than $3 million and/or 5,000 gross square feet.
VT Projects in Design Phase

<table>
<thead>
<tr>
<th>Project</th>
<th>Project Budget (Dollars in Thousands)</th>
<th>A/E Contract Award Date</th>
<th>Anticipated Construction Pricing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student Wellness</td>
<td>$58,000</td>
<td>January 2018</td>
<td>On Hold</td>
</tr>
<tr>
<td>Agriculture Production Facilities</td>
<td>$25,274</td>
<td>November 2016</td>
<td>October 2020</td>
</tr>
<tr>
<td>Dietrick First Floor and Plaza Renovation</td>
<td>$8,300</td>
<td>June 2019</td>
<td>On Hold</td>
</tr>
<tr>
<td>Data and Decision Science</td>
<td>$79,000</td>
<td>August 2019</td>
<td>November 2020</td>
</tr>
<tr>
<td>Corps Leadership &amp; Military Science Building</td>
<td>$52,000</td>
<td>February 2016</td>
<td>December 2020</td>
</tr>
<tr>
<td>New Upper Quad Residence Hall</td>
<td>$33,000</td>
<td>January 2020</td>
<td>December 2020</td>
</tr>
<tr>
<td>Innovation Campus Academic Building*</td>
<td>$275,000</td>
<td>May 2020</td>
<td>May 2021</td>
</tr>
<tr>
<td>Undergrad Science Laboratory Building</td>
<td>$90,500</td>
<td>January 2018</td>
<td>July 2021</td>
</tr>
<tr>
<td>ADA &amp; Code Compliance</td>
<td>$3,100</td>
<td>Underway</td>
<td>June 2021</td>
</tr>
<tr>
<td>Hitt Hall</td>
<td>$75,000</td>
<td>Underway</td>
<td>December 2021</td>
</tr>
<tr>
<td>Global Business &amp; Analytics Complex Residence Hall</td>
<td>$88,000</td>
<td>August 2019</td>
<td>June 2022</td>
</tr>
<tr>
<td>Falls Church Redevelopment*</td>
<td>$48,900</td>
<td>PPEA</td>
<td>PPEA</td>
</tr>
<tr>
<td>Randolph Replacement</td>
<td>$231,000</td>
<td>Underway</td>
<td>June 2023</td>
</tr>
<tr>
<td>Slusher Replacement</td>
<td>$77,000</td>
<td>On Hold</td>
<td>March 2024</td>
</tr>
</tbody>
</table>

*Project located in the Greater Washington DC Metro Area
## VT Projects in Construction

<table>
<thead>
<tr>
<th>Project</th>
<th>Total Budget (Dollars in Thousands)</th>
<th>Date Under Contract</th>
<th>Expected Occupancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance Reserve E&amp;G</td>
<td>$16,099</td>
<td>On-going</td>
<td>On-going</td>
</tr>
<tr>
<td>Maintenance Reserve Auxiliary</td>
<td>$10,000</td>
<td>On-going</td>
<td>On-going</td>
</tr>
<tr>
<td>Student Athlete Performance Center</td>
<td>$20,417</td>
<td>July 2019</td>
<td>November 2020</td>
</tr>
<tr>
<td>Creativity &amp; Innovation Residence Hall</td>
<td>$105,500</td>
<td>March 2019</td>
<td>June 2021</td>
</tr>
<tr>
<td>Chiller Plant, Phase II</td>
<td>$42,968</td>
<td>May 2019</td>
<td>July 2021</td>
</tr>
<tr>
<td>Virginia Seafood AREC</td>
<td>$10,185</td>
<td>August 2020</td>
<td>July 2021</td>
</tr>
<tr>
<td>Holden Hall Renovation</td>
<td>$74,927</td>
<td>August 2019</td>
<td>December 2021</td>
</tr>
</tbody>
</table>
### VT Projects in Close-Out Phase

<table>
<thead>
<tr>
<th>Project</th>
<th>Total Budget (Dollars in Thousands)</th>
<th>Contractor</th>
<th>Date Substantial Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lane Substation</td>
<td>$6,500</td>
<td>AEP &amp; Agency Forces</td>
<td>June 2017</td>
</tr>
<tr>
<td>Health Sciences &amp; Technology</td>
<td>$91,696</td>
<td>Skanska</td>
<td>April 2020</td>
</tr>
<tr>
<td>Gas Fired Boiler</td>
<td>$8,200</td>
<td>D.H. Griffin Companies</td>
<td>June 2020</td>
</tr>
<tr>
<td>Kentland Facilities Improvements</td>
<td>$12,463</td>
<td>Faulconer Construction Company</td>
<td>August 2020</td>
</tr>
<tr>
<td>Athletics Weight Room Renovation &amp; Expansion</td>
<td>$4,500</td>
<td>Thor Construction LLC</td>
<td>September 2020</td>
</tr>
<tr>
<td>Acquisitions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gilbert Street Capital Lease</td>
<td>$60,000</td>
<td>W.M. Jordan Company</td>
<td>June 2022</td>
</tr>
</tbody>
</table>
History of VT Capital Outlay

Total Active Capital Projects
Fiscal Year 1990 - Fiscal Year 2021

Number of Projects

FY... FY... FY... FY... FY... FY... FY... FY... FY... FY... FY... FY... FY...
History of VT Capital Outlay

Total Annual Expenditures of Capital Projects
Fiscal Year 1990 - Fiscal Year 2021

$ in Thousands

Fiscal Year 1990 - Fiscal Year 2021

$250,000
$200,000
$150,000
$100,000
$50,000
$0
VT uses various delivery methods as they fit best to a particular project:

- CM@Risk,
- Design-Bid-Build,
- Design-Build, and
- Public-Private Partnerships in accordance with the requirements of the Commonwealth of Virginia.
How to do Business with Virginia Tech

VT DESIRES TO MAXIMIZE COMPETITION FOR ALL OPPORTUNITIES

Virginia Tech Procurement:
https://solicitation.procurement.vt.edu/

eVA Business Opportunities (Commonwealth of VA):
https://eva.virginia.gov

Private Public Partnership Guidelines:

*VT Procurement directly sources our solicitations to companies wanting to do business with the university and maintains a master list of firms that meet the criteria or have capabilities for the specific opportunity we are advertising. For more information about being notified about future opportunity solicitations, please contact procurement@vt.edu
ADDITIONAL CAMPUS RESOURCES

Virginia Tech:
https://vt.edu

Innovation Campus:
https://vt.edu/innovationcampus/index.html

Campus Master Plan:
https://www.facilities.vt.edu/planning-construction/campus-master-plan.html
Individual Speaker Presentations Completed

Panel Discussion Up Next

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