

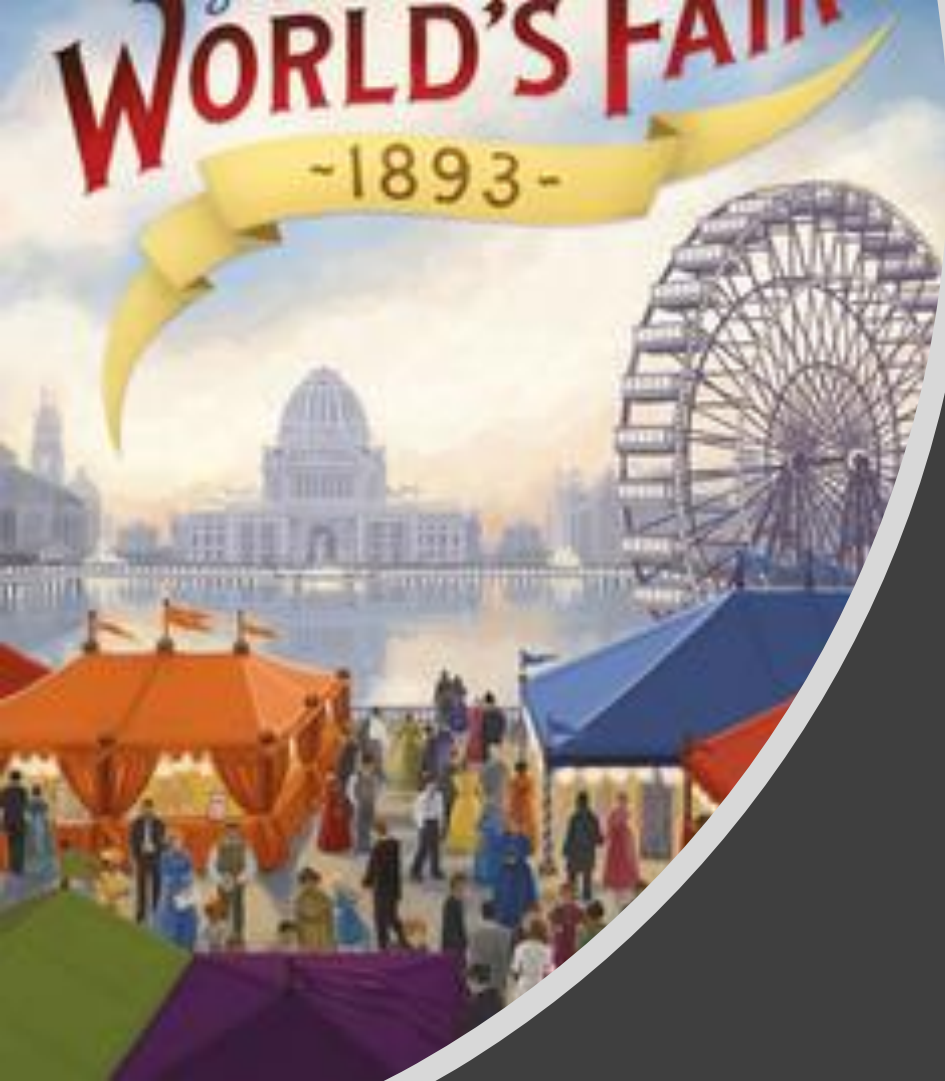
APWA's 2019 Top 5 Trending Technologies in Public Works

**Scott D. Grayson, CAE
APWA Executive Director
IPWEA Conference
Hobart, Tasmania**

August 26, 2019



- Who Are We?
- What Do We Do?
 - Membership
 - Value
 - Voice
 - Education & Credentialing
 - Top 5 Trending Technologies



Who Are We?

- 1894:
Society of Municipal Engineers
- International
Association of Public
Works Officials
- 1937:
APWA Formed

- Board of Directors – 17
- 63 Chapters & 97 Branches
- 34 National Committees



STRATEGIC GOALS & ACTIVITIES



VISION STATEMENT

Advancing quality of life for all

2017
through 2020

MISSION STATEMENT

*Support those who operate, improve and maintain public works and infrastructure through **advocacy, education & member engagement.***

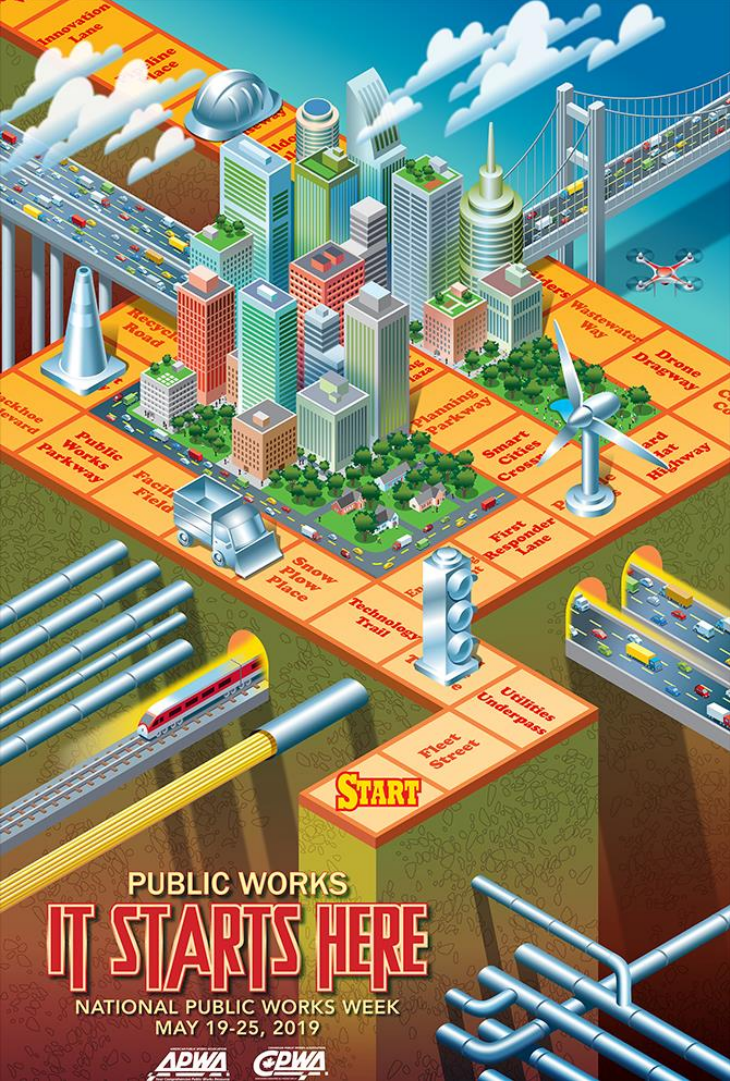
STRATEGIC GOALS

VALUE (VA) — Define the value of public works and enhance its visibility/awareness

VOICE (VO) — Be the voice of public works to government leaders and media

EDUCATION & CREDENTIALING (EC) — Ensure excellence in education and credentialing

MEMBERSHIP AND CHAPTERS (MC) — Create a dynamic membership and chapter model



- Showing the Value of Public Works through National Public Works Week
- Community Outreach all over the U.S. and Canada

VOICE



U.S. Legislative Priorities & Policy Statements for the 116th Congress

- ❖ Transportation
- ❖ Water
- ❖ Emergency Management





Legislative Priorities & Policy Statements for 42nd Canadian Parliament

- Asset Management
- Autonomous Vehicles
- Emergency Management
- Water, Green Infrastructure and Indigenous Infrastructure

BUILDING A BETTER TOMORROW!

APWA Certification!



It's your time. Get Certified!

For more information visit: apwa.net/certification



APWA Accreditation



Watch later



Share



SELF-MOTIVATED APPROACH

THIS IS A VOLUNTARY APPROACH TO
OBJECTIVELY EVALUATE, VERIFY AND
RECOGNIZE COMPLIANCE WITH THE
RECOMMENDED MANAGEMENT PRACTICES.





TOP 5 TECH

APWA's 2019 Top 5 Trending Technologies in Public Works

Smart Cities **1**

Cybersecurity **2**

Asset Management Technologies **3**

Automated/Connected Vehicles **4**

Augmented Reality **5**

How do we communicate and deliver to our members?



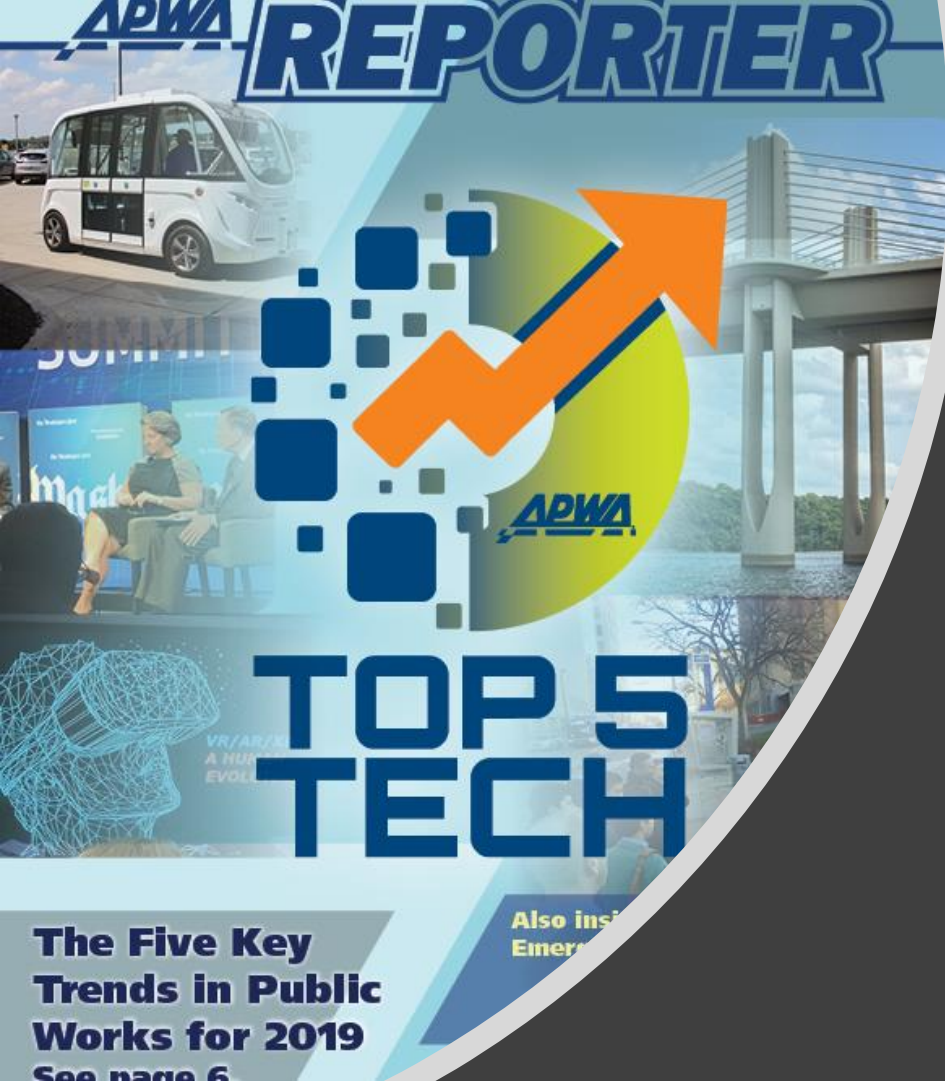
- Roving Reporter
- Reporter Articles
- Talking Top Tech: Webinars
- 20 Educational Sessions at PWX
- Top 5 Tech Featured Exhibitors
- Jennings Randolph International Fellowship Program



Roving Reporter

The Roving Reporter Education Series highlights the towns, companies, and people advancing technology in the public works industry. The series researches, experiences, and records new and innovative technologies that aid and positively influence aspects of public works in an effort to give APWA members a personal experience with trending technologies.

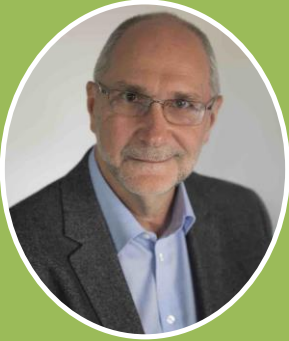
Roving Reporter Education Series content can be found on the Education and Credentialing Playlist at **www.YouTube.com/APWATV**.



APWA Flagship Magazine

**The Five Key
Trends in Public
Works for 2019**
See page 6

Also insi
Emerg



Chris Champion

Director
International &
President of
NAMS Canada

Institute of
Public Works
Engineering
Australia
(IPWEA)

Australasia



Jeff Claus

Principal Asset
Management
Consultant
CDM Smith

Manchester, NH



Darwin Durnie

Senior Principal
Stantec
Consulting Ltd

Red Deer
Canada



Hesha Gamble

County Engineer
County of
Greenville

Greenville, SC



Toby Rickman

Deputy Director
Pierce County
Public Works

Tacoma, WA



NORTH AMERICAN
SNOW 2019
CONFERENCE
SALT LAKE CITY, UT
MAY 19-22, 2019

Mark Your
CALENDAR!



**2019
EVENTS**

PW'X
PUBLIC WORKS EXPO
SEATTLE
SEPTEMBER 8-11, 2019

Jennings Randolph International Fellowship Program





TOP 5 TECH

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NCAA Brackets for Final Four



2019 PUBLIC WORKS TRENDING TECHNOLOGY BRACKET CHALLENGE



- 1 Drones: Maintenance and Inspection
- 16 Internet of Things (IOT)
- 8 GIS in Asset Management
- 9 2D Modeling – Floodplain
- 4 Autonomous Vehicles
- 13 Open Data
- 5 Cyber Security
- 12 Three Dimensional Plans

TOP 4

- 2 Drones: Construction, Surveying and Mapping
- 15 Automated Training Simulation
- 7 Asset Management Apps
- 10 Augmented Reality
- 3 Connected Vehicles
- 14 Fresh Water Supply Technology
- 6 Smart Cities
- 11 LIDAR

NATIONAL PUBLIC WORKS WEEK
**PUBLIC WORKS
CONNECTS US**



“Smart Cities and communities are focused on digital transformation to support sustainable development, improve resilience, meet residents' rising expectations, and to attract investment, new businesses, and talent.”

International Data Group (IDC)
www.idc.com

NATIONAL PUBLIC WORKS WEEK
**PUBLIC WORKS
CONNECTS US**



A Tall Order

“This is a complex undertaking involving cultural and process changes and new relationships, business models, and policies.”

International Data Group (IDC)
www.idc.com



Cybersecurity

- Prevention
- Protection
- Mitigation
- Response
- Recovery



Practicing Good eHygiene

- Update software fixes and firewall programs to safeguard against attacks
- Hold webinars to educate employees on the “do’s and don’ts” of cybersecurity.
- Focus on Human Factors

A photograph of a construction site on a residential street. A yellow JCB backhoe loader is parked on the road. Three workers in high-visibility vests and hard hats are working on a large pit in the pavement. One worker stands to the left, another is inside the pit, and a third is to the right. Several orange and white traffic cones are placed around the work area. The background shows houses and trees.

Asset Management

Autonomous/Connected Vehicles



Augmented Reality



Adding one more commercial building could create additional car traffic for residents. Allows residents to see and experience what it **WOULD** be like.



Communities can see and experience subway systems or light rail before they are built.

Questions?

