

## **1.0 Call for Abstracts**

Welcome to the ASPRS IGTF 2017 Call for Abstracts. Daily we are informed of new and exciting development in the geospatial industry. It is ASPRS' objective to solicit your insights, developments, and refinements for inclusion in the technical program, informative to leading edge workshops, demonstrations, and exhibit space. Subjects such as Smart Cities, Big Data, Internet of Things, Autonomous Systems, new and refined air, land, and water sensors and platforms providing continuous surveying verification, validate and updates, revision and development of new standards (9 July 2016 NPS note on Federal Communications Commission testbed for indoor mobile phone Z-axis accuracy (<http://gpsworld.com/new-testbed-for-verifying-location-technologies/>) all augment and challenge the Geospatial industry.

The ASPRS Core Geospatial technology is incorporated and underlying all these developments. You are the audience that will define where ASPRS needs to refine the technology baselines or develop, in concert with the geospatial community, new implementations to further insure a solid further into the 21<sup>st</sup> century.

We are seeking a number of premier presentation and workshop submissions dealing with ASPRS core disciplines and their application in the collection, management, exploitation, and analysis of geospatial sources, data, and information. We are especially interested in contributions focused on the future and that provide a glimpse of innovation and technology on the horizon. Government agencies, private firms and university programs are greatly encouraged to submit an abstract on emerging application topics with high potential.

## **2.0 Types of Proposals**

The various forms of possible proposals are listed below. For information on allotted times, available equipment and other logistics with regards to proposal types, please visit the IGTF 2017 web site at <http://conferences.asprs.org/Baltimore-2017/submit-abstracts/>

- 2.0.1 Slide-based or Poster-based Oral Presentation
- 2.0.2 Professional Development Workshop (lecture or hands-on)
- 2.0.3 Baltimore Business Outreach (Workshop)
- 2.0.4 Baltimore STEM /STEAM Outreach (Workshop)

### **2.1 Presentation (slide- and poster-based) Proposals**

#### **2.1.1 Abstract submission**

You must have selected either the “Slide-based Oral Presentation” or “Poster-based Oral Presentation” type, which is a Keyword for your submission. Abstracts must be submitted electronically using the Call for Abstracts <http://conferences.asprs.org/Baltimore-2017/submit-abstracts/>. Abstracts may not exceed 500 words in length, and must include:

- Additional Keywords selected from the Topical Application Areas (Section 2.1.3), ASPRS Organizations (Section 2.1.4), Partner Organizations (Section 2.1.4), and Emerging Applications (Section 2.1.5)
- Contact information for the primary author, other authors, and identification of the presenter.
- Further submission requirements are at the conference web site. All word limits do not include Title, Keywords or Author(s) information.

ONLY those abstracts submitted via the official IGTF 2017 abstract submission site will be considered. You do not need to be a member of ASPRS to submit an abstract. There is no cost for submitting an abstract.

You are requested to submit your technical presentation, workshop, or demonstration abstract by **midnight EDT 25 September 2016**.

#### 2.1.1.1. ORAL PRESENTATIONS USING SLIDE OR POSTER MEDIA

A collection of source materials, commonly today referred to as “BIG DATA, allied with systems that integrate subsets of that data through applications such as the Internet of Things, provides a rich set of sensor and other source data to the Geospatial Industry. The sensor data, due to sheer number and frequency of revisit, are resulting in nearly continuous surveying of the air, land and water domains of the planet. These sources come from Public Applications and Data, Private Applications and Data, Open Source Data, with varying degree of completeness and consistency with respect to Geospatial Data Standards, and Meta data standards / Provenance. These are the data you work with and you are requested to report on your efforts against this set of Topical Areas as recommended by the ASPRS Technical Divisions Council:

#### 2.1.2 Topical Areas.

##### 2.1.2.1. Smart Cities \_Stages

- 2.1.2.1.1 Planning
- 2.1.2.1.2 Development
- 2.1.2.1.3 Execution
- 2.1.2.1.4 Maintenance
- 2.1.2.1.5 Revision

##### 2.1.2.2. Geospatial Data Standards

##### 2.1.2.3 Meta data standards / Provenance

- 2.1.2.3.1 FCC interior ‘Z’ Accuracy standard by 2020
- 2.1.2.3.2 Exterior ‘Z’ accuracy standard with zero error at the transition to interiors
- 2.1.2.3.3 Improved, to near perfect data classification accuracy

##### 2.1.2.4. Application areas

###### 2.1.2.4.1. Natural Resource Management

- 2.1.2.4.1.1 Agriculture
- 2.1.2.4.1.2 Energy
- 2.1.2.4.1.3 Gas
- 2.1.2.4.1.4 Geo-Thermal
- 2.1.2.4.1.5 Oil
- 2.1.2.4.1.6 Solar
- 2.1.2.4.1.7 Forestry
- 2.1.2.4.1.8 Pasture
- 2.1.2.4.1.9 Mining
- 2.1.2.4.1.10 Minerals
- 2.1.2.4.1.11 Other

###### 2.1.2.4.2. Infrastructure

- 2.1.2.4.2.1 Architecture
- 2.1.2.4.2.2 Building Information Modeling
- 2.1.2.4.2.3 Transportation
- 2.1.2.4.2.4 Utilities

## 2.1.2.4.3. Big Data Domain Processing Algorithms

## 2.1.2.4.4. Disaster Management

## 2.1.2.4.4.1. Covert

## 2.1.2.4.4.2. Emergency Response

## 2.1.2.4.4.3. Forensics/Crime/ 911

## 2.1.2.4.4.4. Natural

## 2.1.2.4.4.4.1. Atmospheric

## 2.1.2.4.4.4.2. Fire

## 2.1.2.4.4.4.3. Geological

## 2.1.2.4.4.4.4. Mining

## 2.1.2.4.4.4.5. Water

## 2.1.2.4.4.5. Rapid Response

## 2.1.2.4.5. Decision Making Based Data Set Information Extraction

## 2.1.2.4.5.1. Governmental from Federal to Local

## 2.1.2.4.5.2. Urban to Rural to Coastal

## 2.1.2.4.5.3. Citizen science

## 2.1.2.4.5.4. Crowd sourced

## 2.1.2.4.5.5. GEOBIA

## 2.1.2.4.5.6. Health Industry

## 2.1.2.4.5.7. Augmented Reality (computer generated sensory input) in real-world environment

## 2.1.2.4.5.8. Other

## 2.1.2.4.6. Education

## 2.1.2.4.6.1. K-12 STEAM

## 2.1.2.4.6.2. Continuing

## 2.1.2.4.6.3. Professional Practice

## 2.1.2.4.7. Marine and Aquatic Applications

## 2.1.2.4.7.1. Water Quality and Water Quantity

## 2.1.2.4.7.1.1. Fresh Water

## 2.1.2.4.7.1.2. Ocean Water

## 2.1.2.4.7.1.3. Coastal Areas

## 2.1.2.4.8. Sensors

## 2.1.2.4.8.1. In-situ

## 2.1.2.4.8.2. Calibration

## 2.1.2.4.8.3. Exchange Formats

## 2.1.2.4.8.4. Fusion

## 2.1.2.4.8.5. Other

**2.1.3 Relevant ASPRS Organizational Element(s) and Partner Organizational Element(s)**

Select relevant ASPRS Organizational Element(s) from the list below:

2.1.3.1 Data Preservation and Archiving

2.1.3.2 Education and Professional Development

2.1.3.3 Geographical Information Systems

2.1.3.4 Lidar

2.1.3.5 Primary Data Acquisition

- 2.1.3.6 Photogrammetric Applications
- 2.1.3.7 Professional Practices
- 2.1.3.8 Remote Sensing
- 2.1.3.9 Geospatial Standards
- 2.1.3.10 Unmanned Autonomous Systems
- 2.1.3.11 None

**And relevant Partner Organizational Element(s) from the list below:**

- 2.1.3.12 AACC - American Association of Community Colleges
- 2.1.3.13 AAG –Association of American Geographers
- 2.1.3.14 AAGS - American Association for Geodetic Surveying
- 2.1.3.15 ASCE - American Society of Civil Engineers
- 2.1.3.16 ASPRS –American Society for Photogrammetry
- 2.1.3.17 AV - AmericaView
- 2.1.3.18 CaGIS - Cartography and Geographic Information
- 2.1.3.19 CAP –Civil Air Patrol
- 2.1.3.20 GEOTECH –National GeoTech Center
- 2.1.3.21 GISCI –GIS Certification Institute
- 2.1.3.22 GITA - Geospatial Information & Technology Association
- 2.1.3.23 GLIS –Geographic and Land Information Society
- 2.1.3.24 GRSG - Geological Remote Sensing Group –North America
- 2.1.3.25 IAAO –International Association of Assessing Officers
- 2.1.3.26 IAPR –International Association of Pattern Recognition
- 2.1.3.27 JACIE –Joint Interagency Commercial Imagery Evaluation Group
- 2.1.3.28 MAPPS –Management Association for Private Photogrammetric Surveyors
- 2.1.3.29 NCGE - National Council for Geographic and Remote Sensing Education
- 2.1.3.30 NGA –National Geospatial-Intelligence Agency
- 2.1.3.31 NSGIC –National States Geographic Information Society Council
- 2.1.3.32 NSPS –National Society of Professional Surveyors
- 2.1.3.33 TRB –Transportation Research Board
- 2.1.3.34 OGC –Open Geospatial Consortium
- 2.1.3.35 UCGIS –University Consortium for Geographic Information Science
- 2.1.3.36 URISA –Urban and Regional Information Systems Association
- 2.1.3.37 USGIF –United States Geospatial Intelligence Foundation
- 2.1.3.38 Other
- 2.1.3.39 None

**2.1.4 Relevant Emerging Application Topic:**

Select relevant Emerging Application Topic from the list below:

- 2.1.4.1 Pervasive Sensors
- 2.1.4.2 Climate Change
- 2.1.4.3 Web-based open source geospatial analysis tools
- 2.1.4.4 Augmented Reality (computer generated sensory input) in real-world environment

- 2.1.4.5 Cyber and Homeland Security concerns for geospatial data
- 2.1.4.6 Rapid response systems for disaster management
- 2.1.4.7 Other

### 2.1.5 Selection Criteria

All submissions will be peer-reviewed for content and appropriateness by the National Technical Program Committee (NTPC). Acceptance will be based on:

- Abstract appropriateness and merits
- Space availability
- Overall response to this Call and
- Adherence to submission deadlines

Presenters who have not received a communication regarding their submission by **November 1, 2016** should email [ntpc@asprs.org](mailto:ntpc@asprs.org).

### IMPORTANT

The National Technical Program Committee, ASPRS staff and the abstract submission database will communicate with author(s) by email on a frequent basis. Please add [ntpc@asprs.org](mailto:ntpc@asprs.org) and [igtg@asprs.org](mailto:igtg@asprs.org) to your contacts list so they are not stopped by your spam blocker or other email screening mechanisms.

If your email address changes at any time, please be sure to make the change in your profile in the abstract management database; otherwise you will miss important information regarding the forum. *ASPRS is not held responsible for any communication that you may miss as a presenter. It is the Presenter(s) responsibility to stay current with all conference communication.*

### 2.1.6 Proceedings

All slide-based and poster-based oral presenters should submit their final presentations to the Event Proceedings electronically in accordance with the **Important Dates**. Complete details will be included in the Notification of Acceptance e-mail and online. *To be included in the final Proceedings, you MUST have registered and made a presentation.*

### 2.1.7 Presenter Registration Requirements

- All slide-based and poster-based presenters are required to register by the defined Important Dates
- If a presenter has changed, the substitute presenter must register within 4 days of notifying ASPRS of the change.

*NOTE: Presenters who do not register by the defined **Important Date** will be dropped from ALL program details and listings.*

## 2.1.8 Important Presentation Calendar Dates

### Deadlines for Presentation Submission

<b>Presentation Abstracts Due:</b>	<b>Midnight Eastern Daylight Time (EDT) 26 September, 2016</b>
<b>Presentation Notice of Acceptance on or before:</b>	<b>Midnight EDT November 1, 2016</b>
<b>Presentation Speaker Registration Due:</b>	<b>Midnight EDT January 6, 2017</b>
<b>Replacement Presentation Speaker Registration Due:</b>	<b>Midnight EDT February 10, 2017</b>
<b>Paper and Poster Deadline</b> (for inclusion in Proceedings):	<b>Midnight EDT March 4, 2017</b>

## 2.2 Workshop Proposals

The IGTF 2017 workshop program is restructured to provide better service to conference attendees. The IGTF 2017 will host traditional ASPRS Professional Development workshops and regional Baltimore Business Outreach workshops directed towards the business, government leaders or staff, and STEM educators close to the conference location. All workshops are intended to be educational, not promotional for vendor specific software or hardware. We encourage applications from those with workshops successfully conducted previously for ASPRS or other meetings. Topics can range from our underlying basic disciplines to state-of-the-art technology and emerging applications.

Authors should preferably plan on a 4-hour workshop. However, 2-hour and 8-hour workshops can be accommodated. The workshops will primarily be offered during day time. If needed, some workshops may be offered in the evening.

ASPRS deeply appreciates the efforts and the services volunteered by the workshop instructors. Up to two instructors per each selected workshop will be provided a no-fee conference registration and one-night hotel accommodation.

You have selected either "*Professional Development Workshop*", "*Baltimore Business Outreach (Workshop)*", or "*Baltimore STEM/STEAM Outreach (Workshop)*" for your abstract submission. That term must be included in your submission's set of Keywords submitted through the ASPRS submission menu link found at <http://conferences.asprs.org/IGTF/submit-abstracts/> that connects to the abstract software. The following information SHALL be input as part of the workshop proposal. Entries will be prescreened to exclude proposals lacking any of the items listed below:

1. Workshop title
2. Instructor name(s) and short resume(s)
3. Workshop length (2-hour, or 4-hour)
4. Additional Keywords selected from the Topical Application Areas (**Section 2.2.1 Professional Development Workshops** or **Section 2.2.2 Baltimore Business and STEM/STEAM Outreach Workshops**), ASPRS Organizations (**Section 2.1.3**), Partner Organizations (**Section 2.1.3**), and Emerging Applications (**Section 2.1.4**)
5. A 500 word (or fewer) abstract describing workshop goals/learning objectives, content; intended audience, and anything the attendees must provide. NOTE: The 2017 IGTF workshop committee will review this document.
6. General skill level required (Introductory, Intermediate, or Advanced)
7. Maximum number of workshop attendees for effective training.

8. Audio visual equipment requirements, including projection equipment (NOTE: computers are not provided). Identify if internet access is required.
9. Copy of any prior session's workbook/material can be attached to the abstract submission or contact the NTPC at [ntpc@asprs.org](mailto:ntpc@asprs.org) to determine the method to provide the material.

### **2.2.1 Professional Development Workshops**

Workshops in this category are intended to cover well-established topics that include, but not limited to:

- 2.2.1.1 All classes of sensors and manned or unmanned platforms from in-situ to satellite;
- 2.2.1.2 Methods and data improvements to quantify utility of sensor data;
- 2.2.1.3 Object-based image analysis;
- 2.2.1.4 Improved geospatial feature and surface extraction tools, methods, and data architectures;
- 2.2.1.5 Extensive provenance data;
- 2.2.1.6 Classification and positional accuracy assessment;
- 2.2.1.7 Challenging concepts such as:
  - 2.2.1.7.1 The internet of things;
  - 2.2.1.7.2 Pervasive Sensors;
  - 2.2.7.1.3 Geospatial Big Data (near real-time) Management;
  - 2.2.7.1.4 Cyber and Homeland security concerns for geospatial data;
  - 2.2.7.1.5 Web-based /open source geospatial analysis tools;
  - 2.2.7.1.6 Rapid response systems for disaster management;
  - 2.2.7.1.7 Augmented Reality incorporating legal and privacy warnings

### **2.2.2 (Baltimore Business and STEM/STEAM Outreach Workshops**

The outreach workshops are being continued for the IGTF 2017. These workshops should provide users, of well-established or recently released systems and software, insight to the underlying geospatial technology. They may alternatively focus on preparing educators to incorporate geospatial and remote sensing curricula into STEM/STEAM programs. The outreach workshops cover themes of local and regional interest such as:

- Oil & Gas (asset management, environmental permitting, inspection, and emergency response);
- Public Safety (regional emergency response planning, 911 services, and disaster management),
- 3D Intelligent Cities (infrastructure management, transportation, 3D models, smart buildings, crowd sourced mapping, sustainability and resilience);
- STEM Education (geospatial technologies in K-12 curriculum, hands-on training for geospatial educators, web-based and open source geospatial education tools).

### **2.2.3 Workshop Instructor Registration Requirements**

- All Instructors (professional development and outreach) are required to register by the defined Important Dates
- If an instructor has changed, the substitute instructor must register within 4 days of notifying ASPRS of the change.

*NOTE: Instructors who do not register by the defined **Important Date** will be dropped from ALL program details and listings.*

**Deadlines for Workshop Submissions:**

<b>Workshop Proposals Due</b>	<b>Midnight EDT 26 September 2016</b>
<b>Workshop Notice of Acceptance</b>	<b>Midnight EDT 5 October 2016</b>
<b>Workshop Instructor Registration Due</b>	<b>Midnight EDT 28 October 2016</b>
<b>Replacement Workshop Instructor Registration Due</b>	<b>NLT EST 10 February 2017</b>

**2.2.4 Additional Instructions.**

Instructors of selected workshops will be provided additional instructions and information of their convention center room and presentation time in subsequent email communications.



