



# AGENDA

## 7<sup>th</sup> Annual Search and Rescue GIS Workshop & Meeting

November, 12 – 15th 2015 / Columbia College 11600 Columbia College Drive, Sonora, CA [Maps on Page 5]



Thursday - 12 November 2015 - Day 1	
Times	<b>IGT4SAR ArcGIS Desktop Technical Training</b> All-Day, Location: (Juniper 4)
7:45am	<b>Registration Check-In &amp; Laptop Setup</b>
8:30am	<b>Welcome &amp; Overview of Training</b> Paul J. Doherty – National Alliance for Public Safety GIS Foundation & Jeff Tolhurst – Columbia College GIS
9:00am	<b>Training: Getting Started with IGT4SAR and ArcGIS Desktop</b> Don Ferguson – Appalachian Search & Rescue Conference, George Durkee – National Park Service
10:00am	<b>Training: Initial Response and Reflex Tasking</b> Don Ferguson & George Durkee
11:30am	<b>Training: Use GIS for Logistical Support</b> Don Ferguson & George Durkee
12:00pm	<b>Lunch</b> – Available for purchase at Cellar Restaurant & Cafeteria On Campus
1:00pm	<b>Training: Missing Person Behavior Modeling and Terrain Analysis I</b> Don Ferguson & George Durkee
2:00pm	<b>Training: Missing Person Behavior Modeling and Terrain Analysis II</b> Don Ferguson & George Durkee
3:00pm	<b>Training: Cell Phone Forensics &amp; Analysis</b> Don Ferguson & George Durkee
4:00pm	<b>ArcGIS Online, ArcGIS Pro, and SAR Explorer Overview</b> Paul J. Doherty
5:00pm	<b>Day 1 Adjourns</b>

Friday - 13 November 2015 - Day 2		
Times	IGT4SAR Training (Juniper 4)	SAR Mapping Workshop (Juniper 1)
8:30am	Question and Answer Session / Catch-up Don Ferguson & George Durkee	Welcome & Overview of Training Paul J. Doherty
9:00am	Training: Critical Thinking and the Search Scenario Don Ferguson & George Durkee	Training: <a href="#">Hasty Search in SAR Explorer</a> Paul J. Doherty
10:30am	Training: Probability Regions / Search Segments Don Ferguson & George Durkee	
12:00pm	Lunch – Available for purchase at Cellar Restaurant & Cafeteria On Campus	
1:00pm	Training: Resource Estimates & GPS Don Ferguson & George Durkee	Training: <a href="#">ArcGIS Online for WiSAR</a> Paul J. Doherty
2:00pm	Training: Using US National Grid (Juniper 4) – <a href="#">Hands-On with Map</a> Paul J. Doherty – NAPSG Foundation and Coleman Brown – Maryland State Police	
2:30pm	SARTopo Overview (Juniper 4) Matt Jacobs – Marin County Search and Rescue	
3:30pm	Break	
4:30pm – 6:30pm	<p>SARGIS7 Plenary Session (Location: Cedar 1) Welcome Address Angela R. Fairchilds, Ph.D. President, Columbia College</p> <p>What is SAR? What is GIS? Paul J. Doherty, PhD National Alliance for Public Safety GIS Foundation</p> <p>Challenges in National Parks – How Can Maps Help The Next Generation? Stephen Shackelton , University of California – Merced</p>	

<b>Saturday- 14 November 2015 - Day 3</b>	
<b>Times</b>	<b>Search and Rescue GIS Presentations and Discussion All-Day, Location: Manzanita</b>
<b>8:30am</b>	<b>Welcome &amp; Overview of Meeting</b> Paul J. Doherty – National Alliance for Public Safety GIS Foundation
<b>9:00am</b>	<b>Using Cell Phone Data</b> George Durkee – National Parks Service & Eric Menendez - Appalachian Search & Rescue Conference
<b>9:30am</b>	<b>Web Mapping Applications</b> Jon Pedder – Esri Disaster Response Program
<b>10:00am</b>	<b>Break</b>
<b>10:15am</b>	<b>Symbology &amp; Standards</b> Paul Doherty – National Alliance for Public Safety GIS Foundation & David Hansen – GISCorps ( <a href="#">Resources</a> )
<b>10:45am</b>	<b>Unmanned Aerial Systems (UAS) Presentations and Open Q&amp;A</b> David Kovar – National Association of Search and Rescue, Chris Cruz – West Valley College Jeff Tolhurst – Columbia College, Dan Cassidy – University of Nevada Reno
<b>12:00pm</b>	<b>Lunch &amp; UAS “Show and Tell”– Provided by Sponsors</b>
<b>1:00pm</b>	<b>Remote Collaboration</b> Don Ferguson – Appalachian Search & Rescue Conference
<b>1:30pm</b>	<b>Basemaps</b> Carol Ostergren – US Geological Survey
<b>2:00pm</b>	<b>Base Data</b> Lorri Peltz-Lewis – US National Forest Service
<b>2:30pm</b>	<b>Break</b>
<b>Day 3 – Continue on Next Page</b>	

### Day 3 – Continued

<b>2:45pm</b>	<b>GIS Resource Typing</b> David Hansen – GISCorps
<b>3:15pm</b>	<b>US National Grid</b> Coleman Brown – Maryland State Police and Paul Doherty – National Alliance for Public Safety GIS Foundation
<b>3:45pm</b>	<b>Map Products</b> Paul J. Doherty- National Alliance for Public Safety GIS Foundation
<b>4:15pm</b>	<b>Mapping Technology Overview</b> Caroline Rose – University of Wisconsin Madison
<b>4:45pm</b>	<b>Wrap-up and Discuss Action Items</b>
<b>5:00pm</b>	<b>Day 3 Adjourns</b>

### Sunday - 15 November 2015 - Day 4

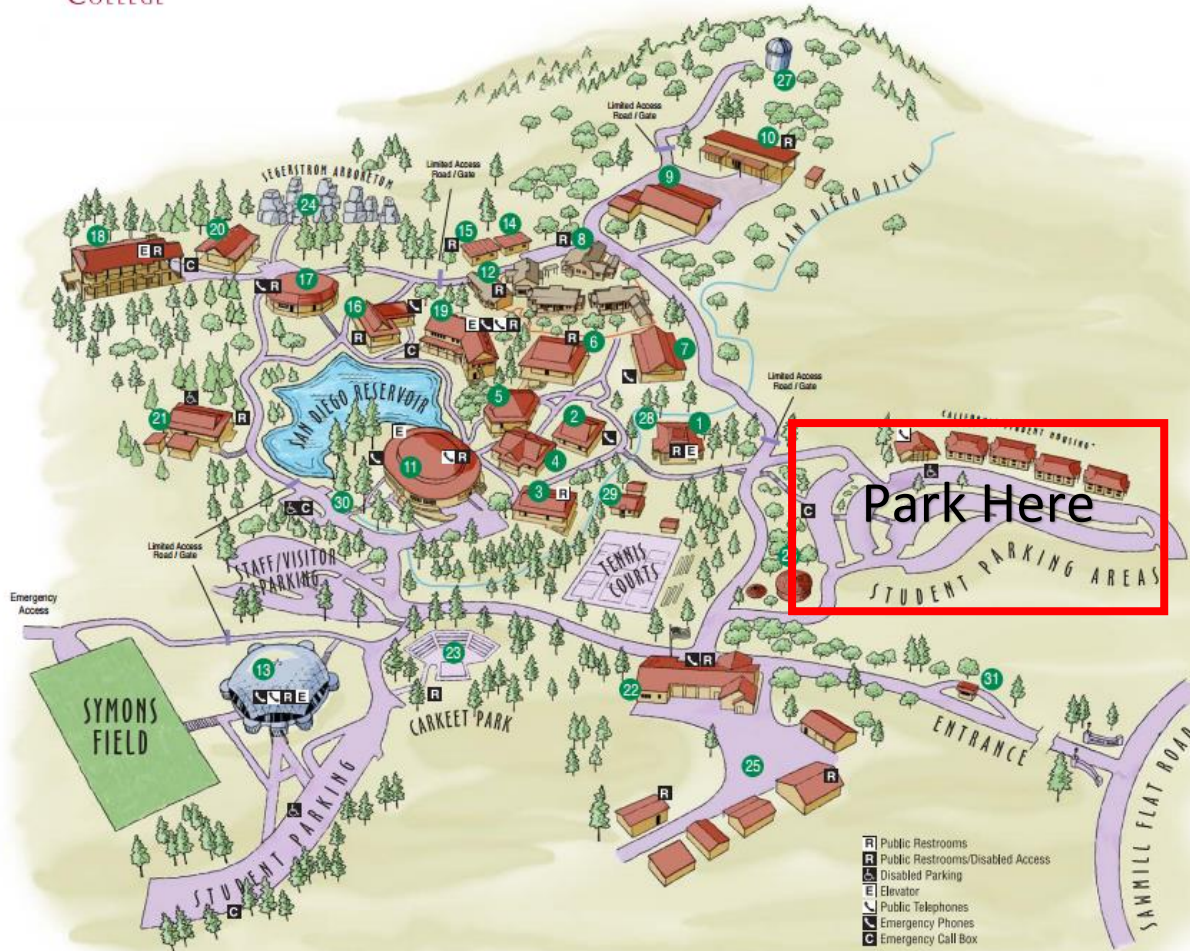
<b>Times</b>	<b>Search and Rescue GIS Breakout Sessions, Location: Manzanita</b>
<b>8:30am</b>	<b>Breakout Session Topics</b> Paul J. Doherty – National Alliance for Public Safety GIS Foundation
<b>9:00am</b>	<b>Session I: Define the Challenges and Audience</b>
<b>9:30am</b>	<b>Session II: Design the Solutions</b>
<b>10:30am</b>	<b>Session III: Presentations</b>
<b>11:30am</b>	<b>Session IV: Closing Discussion</b>
<b>12:00pm</b>	<b>Day 4 Adjourns</b>

Interactive Map: <http://arcg.is/1kpb73C> GeoPDF Map: <http://bit.ly/1kpyqKR>

**Parking:** For all days participants should use the upper student parking lot (turn right after the kiosk when driving up Columbia College Drive, then right again into the student parking lot).



# Columbia College Campus



In case of emergency, call 911  
 Campus Security (Bldg. 22) 588-5167

- Public Restrooms
- Public Restrooms/Disabled Access
- Disabled Parking
- Elevator
- Public Telephones
- Emergency Phones
- Emergency Call Box

Smoking permitted only in designated areas and not within 20 feet of building entrances.

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## LEGEND

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|---|---|---|
| <ul style="list-style-type: none"> <li> Alder</li> <li> Aspen</li> <li> Buckeye</li> <li> Cedar</li> <li> Dogwood (Forum Bldg.)</li> <li> Fir</li> <li> Juniper</li> <li> Laurel (Child Care Center)</li> <li> Madrone</li> <li> Mahogany</li> <li> Manzanita<br/>(Administration, Student Services, Instruction Office,<br/>Manzanita Bookstore, Cellar Restaurant &amp; Cafeteria)</li> </ul> | <ul style="list-style-type: none"> <li> Maple</li> <li> Oak Pavilion</li> <li> Pinyon</li> <li> Ponderosa</li> <li> Redbud</li> <li> Sequoia</li> <li> Sugar Pine</li> <li> Tamarack Hall (Library, Media/Technology)</li> <li> Toyon</li> <li> Willow</li> </ul> | <ul style="list-style-type: none"> <li> Public Safety Center / Firehouse</li> <li> Charles Segerstrom, Jr. Memorial Amphitheater</li> <li> Segerstrom Arboretum Nature Trail</li> <li> Warehouse, Shipping/Receiving, Transportation &amp; Maintenance</li> <li> Me-Wuk Cultural Center</li> <li> Observatory</li> <li> Start Point, Fitness Jogging Trail</li> <li> Davis Cabin</li> <li> Transit Stop</li> <li> Information/Toll Booth</li> </ul> |
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[www.gocolumbia.edu](http://www.gocolumbia.edu)

Fall 2015

# Columbia College GIS [[Watch the Video](#)]

The first step in knowing how to get to your destination is to know where you're at – and no other program can provide you with as detailed a picture of your location than Geographic Information Systems (GIS). In the GIS program you will learn more about geospatial technology (GIS, Global Positioning Systems (GPS), Remote Sensing (RS), and WebGIS) and how it is currently being applied to the fields of natural resources, earth sciences, environmental systems, and more. Geographic Information Systems and geospatial technology has gained worldwide notoriety due to its multi-faceted and versatile applications. Contributing to the recent increased popularity of GIS is the ability to analyze geospatial problems (political, social, health/medical, natural resource disaster, environmental, etc.) based on integrating mapping and computer databases. View your world from another perspective!

## Career Training

Trained GIS technicians and analysts produce intelligent maps to help solve complex resource planning and management problems. Columbia College trains students in the practical application of Environmental Systems Research Institute (ESRI) software, importation of geospatial data, and the display, visualization, exploration, query, analysis, and production of maps and reports. With this training, careers in forestry, natural resources, watershed, wildland fire, earth science, business, archaeology, cartography, city planning, photogrammetry, conservation, mapping and surveying, transportation, sociology, political science and much more await you.

## Student Networking

Business partnerships with public and private agencies allow GIS students to earn additional units while gaining firsthand, on-the-job experience. There are even some courses available at the high school level that can qualify as credit toward your certificate. The GIS program offers its students a rigorous curriculum that will provide excellent preparation and training to advance to GIS coursework at the four-year university level.

## Degrees Offered

See the current college catalog (available on campus or [online](#)) for course information on the following degrees:

### Associate in Science – Occupational Education (ASOE)

- Geographic Information Systems

### Certificate of Achievement (COA)

- Geographic Information Systems

### Skills Attainment Certificate (SAC)

- Geographic Information Systems Geodatabase Micro-Credential
- Geographic Information Systems Geospatial Micro-Credential
- Emergency Response in Geographic Information Systems Micro-Credential