

# 2017 Best Practices Proposal Form



**CACUBO**  
Central Association of College  
& University Business Officers

Completed proposals are to be submitted to  
Donna Rohlfer, Coordinator, CACUBO Best Practices Awards, [rohlfedm@miamioh.edu](mailto:rohlfedm@miamioh.edu).  
The deadline is May 1, 2017.

**Best Practices Program Submission:**

**Title:** *Finding a solution and meeting a need at Concordia Seminary*

**Primary\* Contact Information:**

*The primary contact must be a CACUBO member institution of higher education.*

Institution: Concordia Seminary

Address1: 801 Seminary Place

Address2:

City: Clayton State/Prov: MO Zip Code: 63105

Salutation:  Prof.  Dr.  Mr.  Mrs.  Ms.

First Name: Martin Middle Name/Initial:

Last Name: Hague Suffix (Jr, III, etc.)

Professional Title: Director of Campus Facilities

Email : haguem@csl.edu

Phone: 314-505-7313 Fax:

\*Additional team contacts may be listed at the bottom of this form.

**Institution Information:**

Institution: x Research  Comprehensive/Doctorate  Small Institutions   
Community College

Year Founded: 1839

Geographical Location: Midwest

Number of Students: 500

Website: [www.csl.edu](http://www.csl.edu)

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## **Statement of the Problem:**

*Provide a brief statement identifying the challenge your institution encountered that benefited from your best practice.*

The buildings at Concordia are tall, early 20th century stone buildings with steep slate roofs. Because of their structure, the inspection and tracking of the exterior building system repairs posed a number of challenges. The safety of individuals assigned to inspect these systems was paramount; following this, costs associated with inspecting and tracking repairs to these systems was prohibitive. Deploying an Unmanned Aerial Vehicle (UAV/drone) on the site specifically for this purpose drastically improved the ability to inspect, monitor and follow up on building inspections and repairs. This drastically reduced the safety risk of ascending buildings and improved cost controls for follow-up inspections.

## **Identify the Solution (250-words maximum):**

*Describe how you identified and developed your best practice solution including those involved with the process, impact on the organization, finances and resources.*

The communications department on campus had purchased a UAV for aerial photography. We recognized that we could use that same device to get close to the buildings for inspections. A process was put in place to purchase a UAV, register it with the FAA and deploy it for inspections. Positive impact on the organization included improved morale among maintenance staff, increased oversight of individuals contracted for repairs and enhanced re-inspection ability. Financially, it's hard to completely quantify the return we've seen since implementing the UAV/drone, but there are long-term financial savings that we will see from the solution. Our lower risk and emphasis on safety is something long-term we know will pay off.

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## **Implementation Timeline:**

*Provide a bulleted list of the steps and implementation timeline of your best practice solution.*

1. Nov. 4, 2015 Initial Training with Campus Srvc's Student (Nate/Ray/Darian)
2. Nov. 2015–Dec. 2015 Environmental Services Drones Purchased (2)
3. Dec. 22, 2015 First flight – Survey Tremco H Tower Roof Repair
4. 12-28-15 FAA Registration Complete – FAA Rules (SecondDrone registration completed Jan. 14, 2016)
5. Feb. 9, 2016 Company blog feature
6. May 5, 2016 JSA Draft created
7. June 21, 2016 FAA Administration Announcement – Final Small UAS Rules
8. June 21, 2016 Compliance check with STL FSDO office. According to Kyle (Small UAS Expert), for our use of the drone, no remote pilot certification is needed.
9. Aug. 12, 2016 Usage/Compliance call with C&W Services Legal Dept (Neetu)

## **Benefits & Retrospect:**

*Provide a brief statement of the benefits achieved by implementing the best practice solution.*

The implementation of this best practice resulted in a reduced need to physically verify conditions of roofs and associated drains, improved safety by reducing and/or removing need to send technician onto roof and increased ability to verify what repairs have been completed and what repairs need to be made.

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## Additional Team Contact Information:

### Additional Contact #2:

Institution: Concordia Seminary

Address1: 801 Seminary Place

Address2:

City: Clayton State/Prov: MO Zip Code: 63105

Institution:  Research  Comprehensive/Doctorate  Small Institutions

Community College

Salutation:  Prof.  Dr.  Mr.  Mrs.  Ms.

First Name: Darian Middle Name/Initial:

Last Name: Turner Suffix (Jr, III, etc.)

Professional Title: Operations Administrator

Email : darian.turner@cwservices.com

Phone: 314-505-7333 Fax:

### Additional Contact #3:

Institution: Concordia Seminary

Address1: 801 Seminary Place

Address2:

City: Clayton State/Prov: MO Zip Code: 63119

Salutation:  Prof.  Dr.  Mr.  Mrs.  Ms.

First Name: Nathan Middle Name/Initial:

Last Name: Wade Suffix (Jr, III, etc.)

Professional Title: Site Director

Email : Nathan.wade@cwservices.com

Phone: 314-402-3391 Fax: