



## Baltimore Chapter Association of Graduates U.S. Air Force Academy



---

## Chapter News and Updates

---

### December 2018

*Happy New Year to All*

We end 2018 with some fabulous news: our very own Chris Inglis, '76, has been selected to receive the Distinguished Graduate award from the AOG! This is immensely gratifying for our Chapter and for all who personally know or have worked with Chris. More (much more) information is included below.

Although we have entered the dark ages, the days grow longer now that we have passed the winter solstice and we can look forward to a year filled with hope and promise.

*Wishing Everyone a Truly Awesome 2019*

#### **What's in this edition:**

1. Distinguished Graduate Award
2. Upcoming Events for the Chapter
3. Cool Cyber Stuff
4. Appendix: Inglis Distinguished Graduate Nomination

#### **Distinguished Graduate Award**

What makes a Distinguished Graduate? The term is perhaps overused, given that every single military education provider has a DG category; maybe one day the AOG will rename this award. Until then, the DG we are talking about now is the recognition of a member of the USAFA alumni community who has, “demonstrated a lifetime of service to the nation.”<sup>1</sup>

---

<sup>1</sup> Distinguished Graduate Procedures, <https://info.usafa.org/display/BD/Distinguished+Graduate+Procedures>

Nominations for the award are solicited in the Fall and a Committee of the AOG Board of Directors considers all nominations. A maximum number of four graduates may be recognized in each year. This year was obviously a good year for the class of '76. The awardees are announced in December and honored at the Founders Day Dinner held in Colorado Springs.

This award is a singular honor. We now have 50,000+ graduates in our alumni community but only 37 have been honored as Alumni Distinguished Graduates. The four who have been selected this year bring that total to 41. Those four are: Maj. Gen. (Ret.) Edward R. Jayne II '66, Col. (Ret.) Dr. H. Michael Lambert '70, Gen. (Ret.) Mark A. Welsh III '76, and Brig. Gen. (Ret.) John C. Inglis '76.

The Baltimore Chapter, en masse, nominated Chris for this award. The nomination process is fairly brutal: how does one compress a lifetime of service into two pages, max? Seventy pages might have been more appropriate! A talented team of wordsmiths worked together to craft a message that fit within the two page limit and still conveyed the import of Chris' contributions to the nation. The entirety of the text is included at the end of this newsletter. It is inspiring.

## **Upcoming Events**

First of all, you can always check our website for what's coming up.

<http://baltimore.usafachapters.org>

**JANUARY ANNUAL BOARD BUSINESS MEETING:** We are looking at having the annual Board meeting at 1130 on Wednesday, 10 January 2019 at the All American Steakhouse in Odenton. WEB: [theallamericansteakhouse.com](http://theallamericansteakhouse.com)

**BOARD ELECTIONS:** Per previous notes captured in Julie's Fall Newsletter, we will be voting for Board members for the next year. Please volunteer and provide any recommendations. I look forward to the opportunity to serve as our Board President in 2019.

**FOUNDERS DAY PLANNING:** We will also be proposing locations and dates for the April Founders Day Dinner. Once we provide a date to AOG they will begin looking for one of the USAFA Top 3 for possible speakers. I will coordinate/deconflict with Alex and the National Capital Region which may help for us to get the Sup or maybe the Chief or VCJCS, Paul Selva before he retires...will keep you posted.

**Service Academies Global Summit 2019:** Annapolis, Maryland. June 11-13, 2019 at the Westin in Annapolis. This is an awesome conference: I've heard great things from previous attendees. This year, having it near in Annapolis, gives us the possibility of playing some role. Plan on attending if you can and if you would also be up for a little volunteer activity, drop an email and we will put you on the list. Details: "The purpose of the Service Academies Global Summit (SAGS) is to develop, inspire and promote Fellowship, Leadership/Professional

Development and Service for the “super-community” of graduates worldwide from the five U.S. Service Academies." Registration opens on December 26. Early bird goes through the end of February. <https://serviceacademiesglobalsummit.com/>

JSACS: Don't forget the Joint Service Academy Cyber Symposium will be held at the Air Force Academy in conjunction with the NSA Cyber Exercise.

The joint Service Academies Business Professionals group continues to have periodic meetings in various locations in our area. This is great for both professional networking and for getting exposed to what's going on in the community. Have you signed up to get the emails? The group was founded by Paul Fallace, USNA '91, and is hosted at <https://www.meetup.com/ServiceAcademyBusinessProfessionals/>. If you would like to host an event or sponsor a networking opportunity, let us know.

## Cool Cyber Stuff

A lot of us work in or around the ever-evolving “cyber” community. If you do, you might be interested in the following items.

### AAFS

The American Academy of Forensics Sciences (AAFS) formalized a section dedicated to forensics professionals working in digital and multimedia sciences. Why bring this up? It turns out that the annual scientific meeting for AAFS is being held in Baltimore this year. The dates are February 18th – 23rd, 2019, at The Baltimore Convention Center. There is an age limitation: no one under 18 may attend (this is a pretty obvious limitation, given what forensics professionals have to talk about). The costs are pretty reasonable for a conference of this size and length: early bird (which ends January 31) is \$515, while full price is \$575. There is also a daily rate of \$250 per day.

This conference has some really eye-popping presentations. Some talk titles from previous years include the following: “The Walls Are Listening: A Forensic Study of Home Personal Assistants”, “A Case Study: Ransomware Containing Child Pornography Observed on an Android™ Mobile Device”, “Android™ Thumbnails: Is There More? An In-Depth Analysis of the Android™ Photo Gallery and Camera Processes Looking for Metadata”, and “Snapchat® Data Recovery Capabilities”. (Spoiler alert: the guys recovered a ton of Snapchat data.) Proceedings from previous years can be accessed at <https://www.aafs.org/resources/proceedings/>

In the same vein, the AAFS journal, cleverly named the Journal of Forensics Sciences (JFS), has some interesting articles in the January edition. The entire edition can be accessed at <https://onlinelibrary.wiley.com/toc/15564029/current>. Some articles that might be of interest include “Loose-Lipped Mobile Device Intelligent Personal Assistants: A Discussion of Information

Gleaned from Siri on Locked iOS Devices”, “A Forensic Examination of Online Search Facility URL Record Structures”, and “An Evidence-based Forensic Taxonomy of Windows Phone Dating Apps”.

### **Air Force Studies Board, National Academies of Science, Engineering, and Medicine (NASEM)**

Moving on to the Air Force Studies Board (AFSB) of the NASEM, the final workshop report from the Multi Domain Command and Control (MDC2) has been published. It can be accessed for free at <https://www.nap.edu/catalog/25316/>. From the abstract: “On July 18-20, 2018, the National Academies of Sciences, Engineering, and Medicine’s Air Force Studies Board (AFSB) convened a workshop in Washington, D.C., on multi-domain command and control (MDC2)1 in the U.S. Air Force (USAF). The workshop focused on challenges and opportunities in the areas of operations, technology, acquisition, and policy. During the work-shop, the discussion gravitated toward several key issues and themes that characterized the challenges facing development and deployment of MDC2 systems.”

The AFSB also released a workshop report on Combat Search and Rescue in Highly Contested Environments, which can be accessed here: <https://www.nap.edu/read/25156/>. From the abstract: “The Personnel Recovery (PR) and Combat Search and Rescue (CSAR) missions are core mission functions of the U.S. Air Force (USAF). PR refers to the broad range of operations and forces that provide recovery of personnel, whether the environment is hostile or peaceful. CSAR refers to more specialized operations in which an isolated person (IP) or persons are recovered from hostile environments, typically with the existence of threats to the recovery force. The USAF has successfully performed these missions in the past. Increasingly, however, highly contested operating environments have emerged with the development, growth, and proliferation of Anti-Access/Area Denial (A2/AD) environments and Integrated Air Defense Systems (IADS). A 3-day workshop focusing on the needs of isolated persons (IPs) was convened and examined the nature and consequences of the threat to the CSAR and PR mission, the current PR force structure, equipment and training for the IP, and technologies that might increase the survival of the IP moving into the 2030 timeframe.”

### **Appendix: Inglis Distinguished Graduate Nomination**

The following is a summary of the nomination material. It is a truly inspiring and impressive catalog of achievement.

---

Association of Graduates  
Distinguished Graduate Award Committee

3116 Academy Drive  
USAF Academy, CO 80840-4475

Dear Committee Members,

The Baltimore Chapter of the USAFA Association of Graduates (BCAOG) takes great pleasure in nominating Brigadier General (ret) John C. (Chris) Inglis, '76, for the honor of receiving the Distinguished Graduate Award.

In the early years of the 20<sup>th</sup> century, great technological changes ushered in the aviation age and fundamentally changed the way nations compete and interact, both peacefully and militarily. The vision of Air Power as a distinct aspect of national defense was advocated forcefully by visionaries, including Major General Billy Mitchell, whose name now graces the dining facility at our Academy. We stand at a similar technological tipping point today. Change comes slowly at first and then advances as a tsunami, washing over all barriers and changing the terrain significantly. The technological change that confronts us now is known by many names, but colloquially referred to as Cyber. Cyber is changing everything, from economic activity to national security. Just as we needed leaders like MGen Mitchell in the early 1900s to advance the doctrine and organization of air power, we need leaders today that advance the doctrine and organization of cyber power.

Chris Inglis is such a leader. He has tirelessly worked to advance our nation's capabilities to use and apply cyber capabilities, working across military and intelligence organizations to develop and implement competencies in the cyber realm that undergird and advance our national security in extremely important ways. His name may not be a household word, but within the cyber community, his achievements are regarded as foundational.

Chris is not just an important thought leader in cyber, he is also a powerful advocate for our Academy. He is a member of both the Sabre and the 1954 Society and contributes to the academic and professional mission of both USAFA and USNA. He sees the future and is actively working to ensure the United States is prepared and competent to engage in that future.

In preparing this nomination, the BCAOG was honored to receive the support and input of General (ret) Ken Minahan and General (ret) Keith Alexander, former Directors of the National Security Agency, and VADM Ted Carter, Superintendent of the United States Naval Academy. The BCAOG submits this nomination as a group because we all admire and respect Chris so very, very much. He is not only an extremely accomplished person, who lives the motto of service before self, but is also a valued member of the Baltimore Chapter, contributing in ways both seen and unseen.

On behalf of the BCAOG,

Guy M. Walsh, BGen (ret), '79  
President, Baltimore Chapter USAFA AOG

---

### **2018 Distinguished Graduate Nomination Brigadier General (ret) John C. Inglis**

John C. (Chris) Inglis, '76, embodies the philosophy that there is no expiration date on our oath of office. He began his distinguished career of service to our nation over four decades ago as a scholar athlete with USAFA's class of 1976. Chris has lived our core values while maintaining a deep connection to the Academy, promoting AFA's values, mission, and cadet professional development. His contributions to the nation *and* the Academy are legion, and the following examples will only scratch the surface of an extraordinary and distinguished career in service to the United States and the Air Force Academy.

That Chris has come to embody the ideal of a USAFA graduate is a commitment made more impressive by recognizing the challenges he has faced and overcome along the way. Chris's career at the Academy almost ended before it had a chance to truly begin. A talented intercollegiate lacrosse player, Chris was seriously injured during a match in 1973, resulting in a spinal fusion that ended his lacrosse career and threatened his tenure as a cadet. He was encouraged to accept a medical discharge but refused. Instead, Chris successfully petitioned surgeons and Academy leadership to remain with his class. He went on to excel, serving as 1<sup>st</sup> Group Deputy Commander and graduating 31<sup>st</sup> among 930 classmates as the top grad in the Engineering Mechanics major with a minor in Mathematical Sciences. Chris was recognized as an outstanding scholar and awarded the Guggenheim Fellowship for the Class of 1976. Originally classified as "non-commissionable," due to his spinal fusion and the 14-inch rod in his back, Chris argued his case all the way to the Surgeon General of the Air Force. On graduation day June 2, 1976, Chris Inglis received a commissioning waiver and a waiver to attend Undergraduate Pilot Training.

This dedication to his chosen path would be repeated many times, as he poured all of his talents and energy into serving the nation and our Academy. His service has spanned air operations, joint service, and intelligence. He is renowned for his leadership in developing the operational concepts associated with "cyber", including the development of a curriculum adopted by USAFA, USNA, and USMA. Throughout this amazingly rich career, he has maintained his dedication to USAFA: serving as an ALO, speaking at over 100 high school assemblies in both the UK and US, creating an internship program at NSA, and actively assisting USAFA in educational activities. He has integrated service to the Academy, the AOG, and the nation, to the betterment of all. Chris truly lives the ideal of *Service Before Self*. A summary of his contributions follows.

Following commissioning and graduation, Chris excelled in graduate studies at Columbia University and once again earned Distinguished Graduate status in UPT at Williams AFB, where he went on to become a T-37 instructor pilot and eventually an operational C-141 Aircraft Commander with Military Airlift Command. Invited to serve as Assistant Professor of Mechanical Engineering at the United States Naval Academy in 1984, Chris became the first and only Air Force Academy graduate to receive the Clements Award as the outstanding USNA military faculty member.

In 1985, Chris transitioned to the Air National Guard, flying C-130E aircraft as an Instructor Pilot and Command Pilot, deploying around the globe in support of both combat operations and humanitarian operations, including missions in South America, Africa (Somalia), Europe (NORTHERN WATCH), and Southwest Asia (DESERT SHIELD). Chris routinely commuted across the Atlantic to continue military service with the National Guard, the leading USAF C-130Js to IOC status while transitioning in his Federal service civilian career to a senior leadership role with the National Security Agency. A proven leader, he served as Squadron and Group Commander for USAF's first C-130J squadron, eventually being promoted to serve as Maryland's first Director of the Joint Forces Headquarters (JFHQ).

Reassigned to London, England as NSA's Senior US Liaison Officer, Chris also maintained his service to the Academy as an Air Force Academy Liaison Officer. Despite living 4,700 miles away, Chris inspired students at more than 100 school assemblies across the US and UK in both DoD and US high schools on the merits of a USAFA education and USAF career. Chris continues to serve and promote USAFA, now entering his 22<sup>nd</sup> year as an ALO engaging USAFA candidates.

Chris was a decisive leader in creating and operationalizing the Air National Guard's first Information Operations Squadron. This effort was foundational in developing the US's cyber power, sowing the seeds for today's 3,000 Cyber

Mission Force airmen assigned to three ANG Cyber Operations Groups and 12 ANG Cyber Operations Squadrons. Additionally, as Director of the JFHQ, Chris directed the Maryland Guard's J2 operations to facilitate interaction between national, state and local leadership, providing unparalleled security operations to the 2005 Presidential inauguration, fusing real-time support for 2,000 first responders.

Chris' most notable service to national security began with his transformational leadership while serving as the NSA's first Director for all intelligence analysis and production. With an innate leadership style that promotes teamwork, Chris led the transition of the post-Cold War enterprise of 18,000 SIGINT analysts to create the engine that provided the bulk of the intelligence to DoD's combatant commands, a 14 Nation coalition force fighting the global war on terror, and the numerous US instruments of power conducting diplomacy, international security, and homeland security.

As NSA Deputy Director, Chris Inglis was the Chief Operating Officer for the NSA workforce of over 35,000 personnel and 25,000 contractors. He inspired national leaders in the National Security Council, Capitol Hill, and throughout the national intelligence community with his tremendous work ethic and communications skills. General (ret) Keith Alexander, former NSA Director, considers Chris Inglis "An exceptional leader and among the very best I have worked with in over 40 years in the military". As the NSA Deputy Director, Chris attended the White House Deputy Committee meetings on a weekly basis and his advice and counsel was sought by FBI, CIA, DNI, State and the National Security Advisor. Chris testified for a number of Congressional Hearings and met regularly with members of Congress, in both the House and Senate. He was sought by media for insights on our nation's intelligence

community. Former NSA Director and Director of National Intelligence, ADM Mike McConnell, recently shared during an interview that "Hiring Chris Inglis was one of the best things I did as NSA Director."

President Obama recognized the character and integrity Chris Inglis brought to our nation by presenting Chris with the Presidential National Security Medal, the highest medal given by our nation for national security service. Equally impressive, Chris is one of the few Air Force Academy graduates to receive the Presidential National Security medal and was further singled out as the first NSA recipient of the Presidential National Security Award in over a decade (2005- 2015).

Chris Inglis's commitment to USAFA goes far beyond being an AOG life member and member of both the Sabre Society and USAFA 1954 Society. For nearly a decade, Chris created and expanded opportunities for cadet summer programs. As NSA Deputy Director from 2006-2014, he directed that summer internships for US Armed Services academies be made a permanent program of record and expanded the number of intern slots to underpin service academy efforts to build cyber education and professional development. As a Visiting Professor at the USNA, Chris championed the expansion of the service academy internship program at NSA and US Cyber Command, resulting in a doubling of USAFA, USMA, and USNA billets for security processing and summer

internships. Chris continues to highlight USAFA at every opportunity on the world stage. Most recently, Chris played a significant role in the creation of the Air Force Academy Cyber and Computer Science department, including acquiring National Science Foundation funding for a national effort led by USNA and USAFA to define national accreditation criteria for an undergraduate major in “Cyber Science.” This successful “Cyber Education Project” effort led to the establishment of the ABET Cyber Science criteria in 2017, and to USAFA and USNA’s 2018 accreditation in “cyber science,” as two of only four US universities and academic institutions to achieve this groundbreaking milestone.

Chris exemplifies AOG mantra that service to our nation and community does not end when we take off the uniform. Following 41 years of dedicated service to our nation as a member of the Air Force, the National Guard, and Senior Executive Service, Chris continues to serve through his participation on more than a dozen pro-bono Boards and panels, including the Defense Science Board, NDU’s Board of Visitors, US Strategic Command’s Strategic Advisory Group, and the NSA Advisory Board. Over the past two years he has been a design consultant on standup of the USAFA Cyber Center integrating program content and facility design. Specifically, as a member of the FedEx Board of Directors, Chris championed FedEx support to the USAFA Cyber Center, resulting in a tentative agreement of permanent sponsorship. Above all, Chris Inglis will always be known by all, from classmates to world leaders, for his hard work, integrity, technical and operational expertise, and his sense of humor. Chris is clearly one of the best leaders in our nation and well deserving of the title 2018 USAF Academy Association of Graduates Distinguished Graduate.

## **BCAOG Organizational Structure**

The BCAOG is incorporated as a **tax-exempt** nonstock corporation. The stated purpose of the corporation is:

“To further the principles and welfare of the USAF Academy and its graduates through service to the community, country, and to fellow graduates.”

The official address of the organization is 821 West Benfield Road, Suite One, Severna Park, MD 21146. The official name of the corporation is Baltimore Chapter of the USAFA Association of Graduates, Inc. The registered agent of the corporation is Steven Berger, '76, who also serves as Secretary. The following individuals currently hold leadership positions in the corporation.

**Acting President:**            **Guy Walsh, '79**  
Vice-President:                Todd Raines, '85  
Secretary:                        Steve Berger, '76  
Treasurer:                        Lou Nolan, '86  
Networking Coordinator: Jeff Kubik, '93

**Chairman of the Board:**        **Jeff Kubik, '93**

### Board Members

Julie Ryan, '82  
Bill Barry, '79  
Joe Morgan, '59  
Kirk Hunigan, '82  
Raul Cisneros, '86  
Mike Cunningham, '76  
Steve Miller, '77  
Mark Zlabotny, '71  
Tim Collins, '82

Officers serve yearly. Members of the Board serve terms of three years.

### **To submit material to the Newsletter:**

simply email [julieryan@julieryan.com](mailto:julieryan@julieryan.com) or use the form on the BCAOG website.

<http://baltimore.usafachapters.org>