



# SIGNALS FROM THE SHORE

Association of Old Crows | Garden State Chapter Newsletter

May 2017

## 2017 Annual Business Meeting and Elections

By Guy Albanese

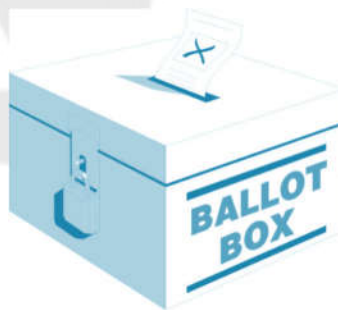


Along with the warm weather of June comes the AOC Garden State Chapter's annual business meeting and the election of Officers and Directors for the new business

year beginning 01 July. The 2017 Business Meeting and Elections will be held on 23 June 2017 at Rooney's Oceanfront Restaurant; 100 Ocean Avenue, North Long Branch, NJ 07740 732-870-1200. The meeting will start at 1130hrs.

The AOC Garden State Chapter is one of the association's larger medium size chapters with a membership approaching 300 consisting of Electronic Warfare Industry's Engineers, Managers, and Business Developers representing disciplines electronics, mechanical and environment, software and techniques. The association's meetings, symposium, lunch and learns, and formal education courses and tutorials at both the National and Chapter Levels give the membership unequaled opportunities to learn, advance, and socialize with colleagues with common interests.

The AOC Garden State Chapter is seeking candidates for President and Secretary. Any chapter member in good standing is welcome to become a candidate. Chapter officers must attend and participate in monthly board meetings, attend chapter functions, represent the Association of Old Crows to the community. The GS Chapter is also looking for members to actively participate in and Chair various committees. Any member with interest can contact Guy Albanese Nominations Committee Chairman 732-915-1183; [guy.albanese@comcast.net](mailto:guy.albanese@comcast.net)



*"WW II events and developed technology are depicted through the use of military miniatures, models, dioramas and artifacts. Our displays, exhibits and artifacts tell the story of both the large and small events that shaped WW II. "*

— *WW II Military Miniatures, Model, Diorama, and Artifact Museum*

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## THE CANDIDATES FOR 2017 ANNUAL ELECTIONS

### Officers

**President – (Vacant) -- Myles Murphy – Harris Inc. will continue on as president in accordance with the by-laws Article VII Section-1 until a successor is duly elected and installed.**

Vice President – John Cervini US Army CIV (Ret.)

**Secretary – OPEN – Seeking Candidates for position**

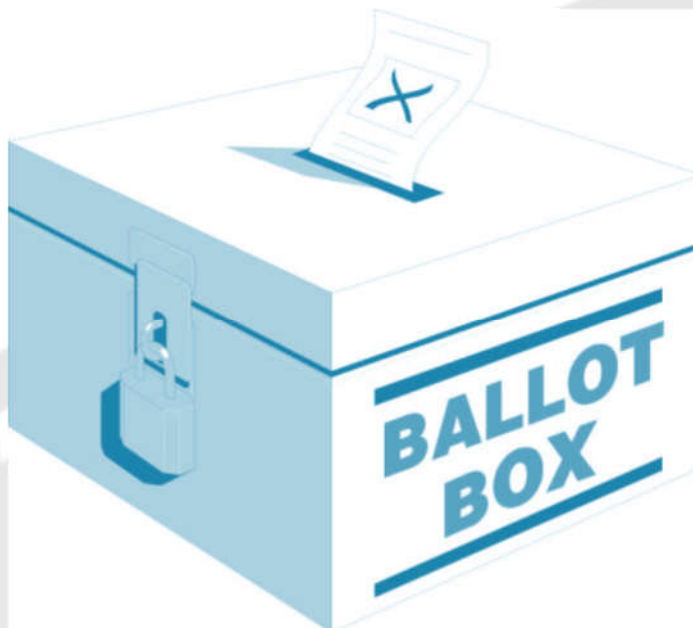
Treasurer – Anthony Moniello – CACI

Directors for a three-year term expiring 2020

Guy Albanese - Gayton J. Albanese Associates

Ray Irwin - US Army Civ.(Ret)

Robert Zanzalari – BZ Consulting





## Visit the WW II Military Miniatures, Model, Diorama, and Artifact Museum at InfoAge

By Bob Perricelli



Bastogne  
"Battle of the Bulge"

The InfoAge Science, History Learning Center and Museum complex is located at Camp Evans (a former Fort Monmouth Electronics Research and Development site) on Marconi Road in Wall New Jersey. InfoAge is made up of a group of cooperating museum galleries dedicated to the preservation of the rich history of Camp Evans and

the military technologies developed there. InfoAge has also been designated as a National Landmark and New Jersey's Living WW II Memorial. Currently there are over twelve different museum gallery's at the complex showcasing exhibits and displays associated with the development of military vehicle technologies; wireless communications; electronic warfare; WW II tactical communications; vintage radio technology; space exploration; underwater shipwrecks; historical computers; electronics; radar; a cold war fallout shelter; and even model trains (Garden State Central Model RR Club). Other activities include computer deconstruction, the Institute for Exploratory Research and the arts project room.

On February 5th 2012 the WW II Military Miniatures, Models, Dioramas and Artifact museum gallery was opened and added to the growing number of museums at InfoAge. WW II events and developed technology are depicted through the use of military miniatures, models, dioramas and artifacts. Our displays, exhibits and artifacts tell the story of both the large and small events that shaped WW II. From the early war in Europe, the attack on Pearl Harbor, the fall of Berlin to the dropping of the Atomic bombs on Japan. Original WW II posters, prints, photographs, and other media items complement the exhibits.

**Do you have an article you'd like to share?**

**Contact Guy Albanese:**

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Operation Market Garden  
"A Bridge To Far"

Events depicted in the museum gallery include: the famous Doolittle B-25 raid on Japan; the pre war activities of the Flying Tigers in China; the Battle for Wake Island; Pacific Island Battles; the Battle of the Bulge; the Battle of Britain; the European B-17 & B-24 raids on Germany; German vengeance weapons (V1 & V2); the Battle for North Africa;

Operation Market Garden; the D-Day invasion; Blitzkrieg; the Battle for Berlin and much more. Our displayed artifacts include a WW II hand held radio, grenades, a cap from a 16 inch battleship gun, a naval communications helmet, and tank ammunition naming only a few. We will soon display additional German artifacts, a wedding dress made from a WW II parachute, and uniforms.

Also, on display is a large collection of WW II ship models made and crafted from wood. Recently three additional rooms have been made available to our museum gallery. New exhibits will include a large diorama of a D-Day British port of embarkation; the 5th of June 1944 airborne attack on the Pegasus Bridge in Normandy; an



D-Day on Omaha Beach

expanded Marine Corp display including Japanese rifles; a WW II home front living room with an interactive 1940's radio featuring programs from the WW II era and a Battle of the Atlantic exhibit. Another room located in the Marconi Hotel will have exhibits commemorating the 100th Anniversary of WW I in April of 2017.

The theme reflects WW I as a prelude to WW II. Exhibits will feature WW I miniatures, models, photos, art work and artifacts.

There is something for everyone at our historical museum gallery and the other galleries that make up In-foAge. We have been called by many "New Jerseys Mini



Wake Island

Smithsonian", so come visit us. We are located at 2201 Marconi Road, Wall Township NJ 07719. The museum galleries are open Wednesday, Saturday, and Sunday from one to five pm. Contact us at 732-280-3000 and/or [info@infoage.org](mailto:info@infoage.org).





## AOC Garden State Chapter Lunch and Learn— Optimizing ADC interfaces for EW latency

by Mr. Andrew Reddig, the founder, CEO and CTO of TEK Microsystems Inc.



Parallel e2v EV10AQ190 10-bit chip on card

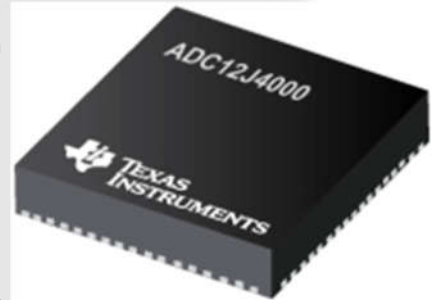
On March 20, 2017 Mr. Andrew Reddig, the founder, CEO and CTO of TEK Microsystems Inc., Chelmsford, Massachusetts gave the subject presentation before a rapt audience at Harris Corporation, Clifton, NJ. Andy did an outstanding job of clearly defining latency beyond Field Programmable Gate Array processing; and describing coherency, modularity, technical tradeoffs, and the importance of standards in the converter field.

The talk focused on decisions that designers must deal with, and the differences between Parallel and Serial ADC/DAC interfaces; and the tradeoffs between latency and pin count in the two approaches. Andy also described the

evolution of the JES D 204 serial ADC evolution, and its role in lowering pin count, reducing package size and increasing channel density. He then gave specific examples of parallel and serial chip specifications.

Andy then described a number of mezzanine form factors including the TEK Micro Quixmodule 2.0 and various types of FMC implementations. According to Andy Reddig, FMC modules were created to provide a standard mezzanine card form factor, connectors, and modular interface to an FPGA located on a base board (carrier card).

Decoupling the I/O interfaces from the FPGA in this manner simplifies I/O interface module design while maximizing module reuse. He then illustrated a DRFM application using FMC and Quixmodule mezzanine cards. Then Andy followed up with latency tradeoffs for SIGINT and EW applications using serial and parallel hardware, respectively; and concluded with a real world example.



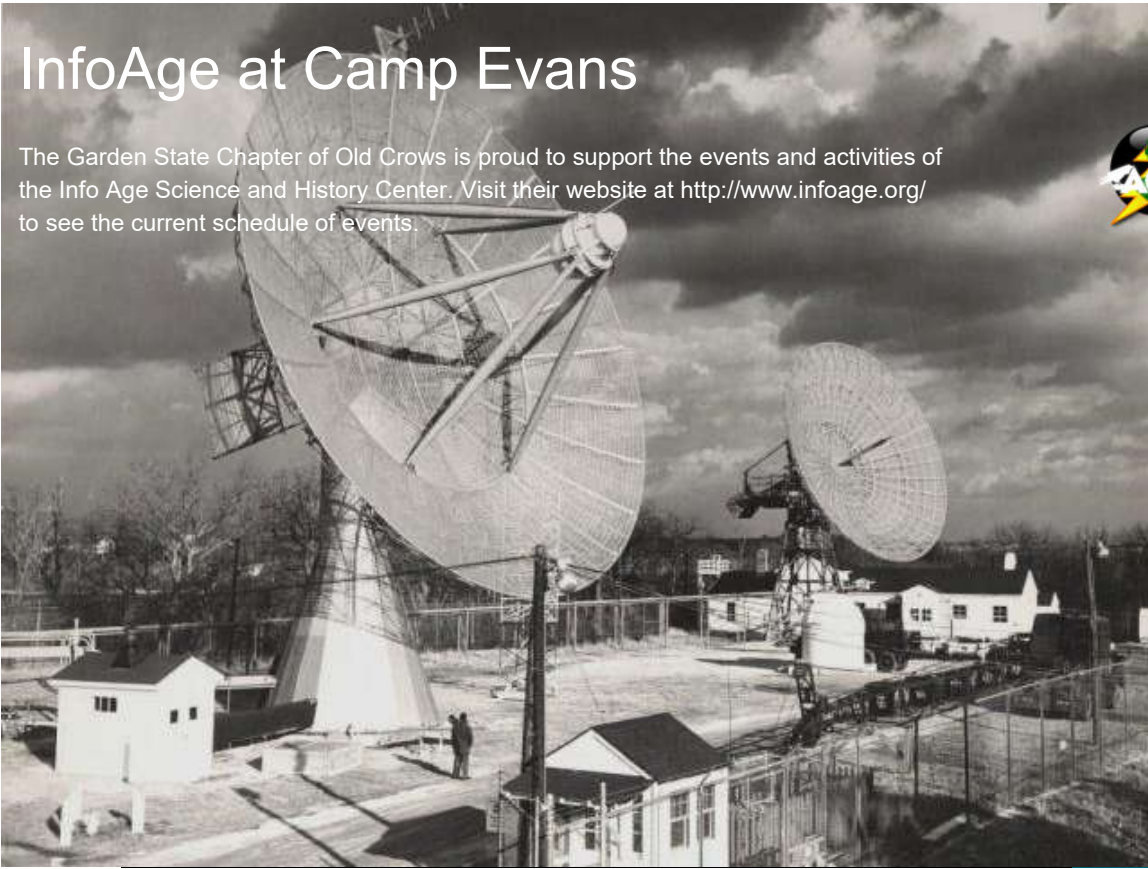
Serial TI ADC12J4000 12-bit ADC

The take-away from this lunch and learn is that if engineers need help in system or subsystem design using the latest ADC/DAC components; they should contact Andrew Reddig of TEK Microsystems.



# InfoAge at Camp Evans

The Garden State Chapter of Old Crows is proud to support the events and activities of the Info Age Science and History Center. Visit their website at <http://www.infoage.org/> to see the current schedule of events.



## About Us



The Association of Old Crows Garden State

Chapter is a non profit international professional association engaged in the science and practice of Electronic Warfare (EW), information Operations (IO) and related disciplines.

## Contact Us

Association of Old Crows Garden State Chapter

### **Association of Old Crows Garden State Chapter**

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