

# Speedi

*Wings & Wheels*

[www.speedi.tv](http://www.speedi.tv)

October / November 2016

Issue No: 28

News

Events

Features

Show Reports

Reviews



*WINGS OVER CAMARILLO*



*CALIFORNIA CAPITAL AIR SHOW*



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**MASSIVE 153 PAGE ISSUE  
INCLUDING 50 PAGE RENO SPECIAL**

FREE!  
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Magazine

**THIS MONTH: Biketoberfest California Capital Air Show Reno Air Races Wings Over Camarillo and Much More**

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NASA Image

Expedition 48 Crew Preparing to Return Home

Expedition 48 Commander Jeff Williams of NASA returns to Earth Tuesday, Sept. 6, 2016, after a five-and-a-half-month mission aboard the International Space Station. Williams captured this photograph and wrote, "I will certainly miss this view! Vast gratitude toward my crewmates, ground teams, supporting friends, and family."

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Editorial Team: North America Editor – Steve Wood   West Coast Contributor - Jim (Flybum) Pratt   Canada - Jim Swan   Cruisin' & Hot Rod's - Gary Rosier   UK Team - The Gremlins at Kew



## Editorial

Welcome to the October / November 2016 issue of *Speedi Wings & Wheels*.

Take a look at our 'Content's page to find out more about what's in this issue. The magazine is published bi-monthly during the last week of February, April, June, August, October and December.



The A350 XWB in formation flight with the Red Arrows on Day Five of the Farnborough International Airshow

In this issue we are featuring the National Championship Air Races from Reno, NV - Plus much more . . .

Take a look at the next page - the magazine index - for more details

Blue Sky's and Safe Flying.

*The Speedi Team*

*Speedi Wings & Wheels is a wide screen format magazine  
Best viewed in full screen single page HD mode*

# 7 Reno Air Races 2016 - 50 pages

# Speedi

Wings & Wheels

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## Scorpion jet successfully completes first weapons capability exercise

WICHITA, Kan. (Oct. 19, 2016) – Textron AirLand, LLC, a Textron Inc. (NYSE:TXT) company, today announced that the Scorpion jet has successfully completed its first weapons exercise at White Sands Missile Range, while operating from Holloman Air Force Base (HAFB) in New Mexico. This exercise effectively demonstrated the Scorpion's close air support mission capability through the successful deployment of three widely used weapon systems.

The weapons system design, integration and flight test coordination for all three weapon types were achieved in an impressive time span of less than three months. The weapons testing program occurred Oct. 10-14 in coordination with the Naval Sea Systems Command (NAVSEA) organization and the 586th Flight Test Squadron from HAFB. All weapon types performed flawlessly

and included Hydra-70 unguided 2.75-inch rockets, BAE Systems' Advanced Precision Kill Weapon System (APKWS) and AGM-114F Hellfire Missiles. The weapons were guided to their targets using first a ground-based laser designator system and then an airborne laser on the Scorpion's L-3 WESCAM's MX-15Di sensor suite.

"The success of the first weapons capability exercise is a major milestone for the Scorpion program as we continue to demonstrate its mission flexibility and multi-role capabilities," said Tom Hammoor, senior vice president of Defense at Textron Aviation. "We could not be more pleased with the results of this exercise, thanks to the collaboration between our Scorpion team, the NAVSEA organization and the Holloman Air Force Base."

The first Scorpion prototype continues its robust flight test program, while the first flight of the first production conforming Scorpion is expected soon.

## About Textron AirLand Scorpion:

Designed and built with leading-edge technologies, Textron AirLand's Scorpion jet is a bold new direction for tactical aircraft. In two years of flight operations, the Scorpion has deployed to 10 countries, participated in military training exercises and operations, flown numerous U.S. and international military pilots and amassed more than 750 flight hours. The Scorpion provides unparalleled acquisition and operating costs with a dispatch reliability rating exceeding 98 percent. The Scorpion is very versatile in terms of mission flexibility with its center payload bay, six hard points, high dash speeds, and extended endurance and loiter time at cruise speeds. The Scorpion is built to excel in many roles, including intelligence, surveillance and reconnaissance, close air support, armed reconnaissance, maritime and border patrol and jet training missions.

## About Textron AirLand, LLC:

Textron AirLand has developed, in the Scorpion, a highly affordable and exportable twin-engine ISR/Strike/Trainer jet for the tactical military aviation market. A versatile jet platform based on commercial best practices and proven high technologies, Scorpion is designed as a multi-mission aircraft for diverse battlefield, security and training missions. More information about our initial aircraft is available at [www.ScorpionJet.com](http://www.ScorpionJet.com).



## Heathrow release: Government's choice for Heathrow expansion will help deliver PM's vision of a stronger, fairer UK

London - 25 October 2016

Heathrow today welcomed Government's decision to support its expansion and confirmed it will begin work to deliver the new runway that will connect all of Britain to the world, bringing new jobs and economic growth to every nation and region.

The decision declares Britain "open for business". Expanding Heathrow will keep Britain growing at the heart of the global economy, do more than any other infrastructure project to share economic growth all around the UK and deliver more competition and choice for passengers.

The Government's decision follows the unanimous and unambiguous

recommendation of the Airports Commission last summer after a two and a half year, £20m study. The Commission confirmed that expanding Heathrow would have the biggest economic benefits for the UK and can be done while reducing noise for local communities and in accordance with EU air quality law.

Expansion of Heathrow is also supported by business, trade unions and airlines as the best solution to Britain's aviation capacity crunch. Supporters include the CBI, BCC, chambers of commerce across the country, Unite, the GMB, 38 regional airports and airlines such as Easyjet and Flube

When it opens in 2025, new airport hub capacity will allow up to 40 more long haul destinations, such as Wuhan, Osaka and Quito, making Britain the best connected country in the world. It will increase the number of domestic routes served,

ensuring every region and nation of the UK can get to global markets and increase cargo capacity, supporting Britain's exporters.

Heathrow is one of the most experienced infrastructure delivery companies in the UK having spent £11bn over a decade to transform into the best hub airport in Europe.

This included a new Terminal 2 and Terminal 5, the latter of which has been voted by passengers as the best in the world four years in a row.

John Holland-Kaye, Chief Executive of Heathrow Airport said, "Today, the team at Heathrow start the important work to deliver the vital new runway that the UK needs to compete in the world. A new runway will open trade routes and create jobs up and down the UK. Heathrow will play a key role in making our country stronger and fairer for everyone."

"We look forward to working with Government, businesses, airlines, the CAA and our local communities to deliver an airport that is fair, affordable and secures the benefits of expansion for the whole of the UK."

To find out more about Heathrow's expansion plan, including a CGI video, [click here](#)





## Boeing, UPS Announce Order for 14 747-8 Freighters

EVERETT, Wash., Oct. 27, 2016

Boeing [NYSE: BA] and UPS [NYSE: UPS] today announced an order for 14 747-8 Freighters. The agreement also includes an option to purchase an additional 14 of the cargo airplanes.

"These aircraft are a strategic investment for increased capacity for UPS customers around the globe," said Brendan Canavan, president, UPS Airlines. "The 747-8 will allow UPS to upsize our

network in both new and existing markets."

The 747-8 Freighter is the world's most efficient freighter, providing cargo operators the lowest operating costs and best economics of any large freighter on the market. With its iconic nose door, the airplane has 16 percent more revenue cargo volume than the 747-400F. The airplane also reduces the noise footprint around an airport by 30 percent compared to its predecessor.

"UPS could not have selected a better aircraft to meet its growing business needs," said Brad McMullen, vice president, Sales, North America and Leasing, Boeing Commercial Airplanes. "We've continued to make the 747-8

Freighter even better, and we look forward to seeing UPS introduce it to its fleet."

With 109 747-8 passenger and freighter airplanes delivered to customers around the globe, the fleet is performing with the highest dispatch reliability and utilization of any four-engine airplane in service.

UPS is a global leader in logistics, offering a broad range of solutions including transporting packages and freight; facilitating international trade, and deploying advanced technology to more efficiently manage the world of business. Headquartered in Atlanta, UPS serves more than 220 countries and territories worldwide.

## A journey of 10,000 aircraft and counting: Airbus' pioneering spirit and commitment to shaping the future

14 Oct 2016 - Toulouse, France

Driven by a passion for aviation and a desire to create better ways to fly, the over-four-decade-long Airbus success story is now an achievement that spans 10,000 aircraft – from the A300 to the A350 XWB and beyond.

With the handover of an A350-900 to Singapore Airlines today, Airbus marked the 10,000th aircraft provided to worldwide customers since the aircraft manufacturer's initial delivery in 1974. This accomplishment underscores the company's ongoing growth that has transformed a European upstart in the 1970s to a global market leader now offering a modern and comprehensive product line ranging from 100 to more than 600 seats.

"Building and delivering 10,000 aircraft is a remarkable achievement and important step in our journey reflecting the hard work, dedication and creative thinking of Airbus employees past and present," said Fabrice Brégier, Airbus President and CEO. "As we prepare for the future ahead, this spirit will continue to be a key part of our ongoing success."



### Continuous leadership

Deliveries of every Airbus "family" member have contributed to this milestone – from the cornerstone medium-haul A300 and A310 to the best-selling single-aisle A320 product line, long-range A330/340 Family, new-generation A350 XWB and double-deck A380.

Throughout Airbus' history, these commercial aircraft have been connected by the shared values of continuous innovation, unmatched operational efficiency and superior comfort – characteristics which operators and passengers around the globe have firmly endorsed.

To date, the global Airbus fleet has performed more than 110 million total flights and flown some 215 billion kilometres (enough distance to travel from the Earth to the Sun some 1,500 times). Airbus aircraft have carried over 12 billion

passengers in commercial service – a figure representing approximately twice the world's population.

At current production rates, Airbus expects to deliver its 20,000th aircraft in approximately a decade – taking about one fourth of the time to produce its second 10,000 jetliners as compared to the first 10,000.

"Our desire to further transform the industry is undiminished," said Didier Evrard, Airbus Executive Vice President – Head of Programmes. "We will continue to improve environmental performance, reduce noise, develop new services and enhance operational capabilities. We'll strive to stay at the forefront when it comes to connected aircraft, passenger comfort, and adopting disruptive technologies"





Photos for this feature by:

Jim (Flybum) Pratt - Pages 8 through 31

Tim Sowell - Pages 32 through 56



## The 53<sup>rd</sup> Reno Championship Air Races - 2016

Wow, another year goes by and it is race time again. It seems like it takes so long to get here but then it doesn't seem that it has been that long since the last race. Go figure.

To start out with, if you have never been to the races and want to see a great video on last years race, produced by NBC Sports, go to this link and you can see what it is all about:

NBC Sports Coverage of 2015 Reno  
[https://www.youtube.com/watch?v=2\\_MJzwMw8ms](https://www.youtube.com/watch?v=2_MJzwMw8ms) HYPERLINK  
"[https://www.youtube.com/watch?v=2\\_MJzwMw8ms&feature=youtu.be](https://www.youtube.com/watch?v=2_MJzwMw8ms&feature=youtu.be)"& HYPERLINK  
"[https://www.youtube.com/watch?v=2\\_MJzwMw8ms&feature=youtu.be](https://www.youtube.com/watch?v=2_MJzwMw8ms&feature=youtu.be)"

The races were well attended this year, based on the crowd in the grandstands. That, despite the fact that some of the main competitors were missing. Strega was not there. Rare Bare was there but only for static display.

Race results for all races are available at <http://Reports-AirRace.org>. In summary, the Gold Unlimited Race was won by Steven Hinton flying Voodoo, a P-51D Mustang at 460.306 mph. The Gold Jet Race was won by Rick Vandam, flying an L-39 "American Spirit at 497.921 mph. The Gold T-6 Race was won by Chris Bushing, flying "Baron's Revenge" at 231.193 mph. The Sport Class Gold was won by Jeff LaVelle flying "Race 39", a Glasair III, at 383.297 mph. The Biplane Gold was won by Jeff Rose flying a Mong Sport "Reno Rabbit" at 217.858 mph. Finally, the Formula One Gold was won by Lowell Slatter flying

"Fraed Rabbit" a Gilbert DG2 at 256.728 mph.

The Blue Angels did their magic on Saturday and Sunday with a practice day on Friday. They never fail to disappoint and are back in action after losing a performer earlier in the year. Capt. Jeff Cush, a U.S. Marine crashed just after takeoff in Smyrna, Tennessee while flying Blue Angels 6 a couple of months ago.

Two F-35s were present at the show but did not fly. Nationwide, several were grounded due to a "coolant line flaw" this past week. Not sure if that is why they didn't fly.

There were some mishaps during the races including ground loop accidents, smoke in the cockpit emergency, and a few Maydays. A DeHaviland Vampire jet had an emergency and was unable to make a runway, landing on the desert

floor. The aircraft will be written off because of the damage. A Glasair had smoke in the cockpit, the pilot declared a Mayday and landed. She exited the aircraft but a fire ensued which badly damaged the aircraft. The pilot was okay.

At the start of a Formula One Race a false start and miscommunication almost cost one pilot his head. The incident was widely viewed on Youtube. <https://youtu.be/FyfK1tea3zo>

Looks like the Sport Class guys are making ample use of Nitrous Oxide to get more performance from their engines.

We saw several rigs installed in the Van's RV type of racers. Apparently it is not against the rules to do that in that class. One pilot that I talked to, who finished at the back of the pack, said that his system did not deliver the full amount of N2O required and it cost him the race. I guess it does make a difference.

Judging by the attendance, it looks like the Reno Air Races will thrive despite a temporary shortage of Unlimited Racers. The Jet Class is growing. The Sport Class is increasing in numbers and some of these aircraft are running at speeds close to the Unlimiteds. Hopefully, Strega and Rare Bear will return along with some other surprises to reinforce the Unlimited Class.

Jim (Flybum) Pratt





































































































































































































# SPEEDI'S BLOG

**W**ELCOME TO SPEEDI'S Blog.

Loyal readers of my blog will know that I'm fortunate to have a vacation home at Spruce Creek Fly-in, which is the largest (and greatest) flying community in the world.

As the largest residential air park in the world - almost 800 airplanes are based there - general aviation is a key element of community life.

There is a very active EAA Chapter (EAA 288, with its own [website](#). Chapter 288 is one of the largest, most active chapters in the EAA today. If it flies, chances are there's a 288 member who's flown it, worked on it, or owns it!

Formation flying is one of the key elements at Spruce Creek. The Spruce Creek Gaggle Flight has well over 100 members who fly in formation on a regular basis. At Sun 'n Fun

earlier this year the Gaggle Flight was invited to make two formation passes to showcase formation flying in a variety of general aviation aircraft. Here's a link to a video of the flights - [click here](#)

There are two major community events at Spruce Creek - both of which we have covered in previous issues. In December there's the Spruce Creek Toy Parade, where residents bring out their many 'toys' for all to see. In January, there's the community bonfire. The Gaggle Flight is heavily involved in both events.

The Gaggle Flight team also produces an annual calendar, the proceeds from which support aviation education. Individual flights take pride in setting up formations shots for each month of the calendar. In my case, as Goofy Flight lead, we often end up as the flight for the month of January. This brings

certain responsibilities, for example: conducting the weekly Gaggle Flight brief for the month.

The photo below shows Goofy Flight from the 2014 calendar.



The photo was taken by Bob (Roofman) Terry who up till recently has been the Gaggle Flight's resident photographer. Sadly, ill health has forced Bob to stand down from this role. Hopefully Bob will be back behind the camera in future years.

For this year's calendar the Gaggle Flight has enlisted our own Florida correspondent - Gary Rosier - as the photographer. It's very difficult to compete with the superb photos taken over the years by Bob Terry, so Gary has a >>

>> hard task ahead.

On the next page of this issue we are featuring some of Gary's photos in a 'behind the scenes' montage of the shooting of Goofy Flight's Gaggle Calendar photo.

Gary also brought along his partner, Marty Stephens, who is turning out to be an accomplished aviation photographer in her own right.

Bob Terry made taking formation photographs look so easy. In reality it is a highly skilled task, and one which Bob developed over the years from his own experience as a formation pilot.

Safety in setting up the formation photos is a key element, as it is in each and every formation flight. A detailed 'brief' is essential and there's a shot of Goofy Flight carrying out this task on page 60. But of course to get the optimum shot for the calendar means that literally hundred's of

shots are taken. The digital camera has made this task much easier.

We have included some of the other photos taken by Gary and Marty in our 'News from the Barn' feature on pages 58 through 68 of this issue.

But we also have a bit of fun too . . .



Marty's photo above shows from left to right - 'Super Dave' - so called because he flies a Super Decathlon in our flights. In his day job, or should I say night job, he's a senior Captain with UPS

flying Boeing 757's and 767's around the USA.

I'm standing in the center, and that's enough about me . . .

The 'fella' on the right is one of Goofy Flight's newest recruits. James 'Jay Bee' Souder is his name. He's the guy flying the gray T-34 in the formation shots.

We are indeed honored to have Jay Bee aboard. Retiring from the Navy as Commander Souder, Jay Bee flew 'back seat' in the F-4 Phantom during the Vietnam war. His plane was shot down by a MIG on 27 April 1972 on his 325<sup>th</sup> mission. He then served 325 days, one day for each mission he flew, in the infamous Hanoi Hilton - we salute you.

He's a very 'good stick', something he found difficult during his Navy career as unlike the Air Force version, the Navy F-4 had no control stick in the back. He's also a wicked sense of humor, particularly with Brits!





**N**EW FROM THE Barn is a regular feature about the happenings at the largest (and greatest) fly-in community in the world - Spruce Creek Fly-in. Situated on the Space Coast of Florida, just 7 miles south of the famous Speed City of Daytona Beach, Spruce Creek is a very special place. Our North America editor, Steve Wood, has lived there for since 2001, so he should know. We hope you enjoy this regular feature about a very special aviation community.

Spruce Creek Airport Information - Courtesy of the Spruce Creek POA Website - [www.scpoa.com](http://www.scpoa.com)

The Spruce Creek Airport is the heart of the Spruce Creek Fly-In Community. The Airport is a private airport owned and operated by the Spruce Creek Property Owners Association (SCPOA). The Spruce Creek Airport Authority Committee through the SCPOA Board of Directors has the authority and the responsibility to oversee the operation of the Spruce Creek Airport. The SCPOA employs a full time, 24-7 security staff. The Airport runways, taxiways and aircraft parking areas are regularly patrolled and are under continuous video surveillance by the Security staff 24 hour a day.

All flying activities at the Spruce Creek Airport are regulated by the FAA and by the recommended procedures published in the Aeronautical Information Manual (AIM). In addition, a limited number of local rules and procedures have been established to promote a safe and enjoyable airport. All resident, tenants and invitees are encouraged to cooperate and abide by these procedures.

**SPRUCE CREEK AIRCRAFT ARRIVAL & DEPARTURE PACKAGE** - The airport management provides information to assist all pilots operating in and out of the Spruce Creek Air, viewed or printed with Adobe Reader. [Download PDF](#)

**AIRPORT SAFETY VIDEO** – The airport management recommends that all Spruce Creek Fly-In residents and airport users view this very good airport safety video. Click [Here](#) Airport Info Quick List.

TEL ..... 386/760-5884 or Airport Manager cell see below.

FAX ..... 386/761-7808 AFTER 1700 .....386/756-6125 (Security)

VORTAC OMN .....112.6 MHz 165°R/13.9 DME

VORTAC ORL ..... 112.2 MHz 020°R/35.6 DME

FSS St. Petersburg .....122.2 MHz

APCH CNTRL Daytona Beach ...125.35 MHz (South) 125.8 MHz (North)

INSTR APCH (Rwy 05) .....GPS (Private, Residence Only)

CTAF..... 122.975 MHz (pilot actuated lights 3-5-7 clicks)

AWOS..... 121.725 MHz

FUEL ..... 100LL & JET A (self serve and truck delivery)

FUEL ..... 386 257-7791 (on field) or 129.7 MHz (forward request to Spruce Creek)





**IN THIS ISSUE WE TAKE A 'BEHIND THE SCENES' LOOK AT THE SHOOTING OF PHOTOS FOR THE GAGGLE FLIGHT CALENDAR - FEATURING GOOFY FLIGHT**



Photo: Gary Rosier

IN OUR 'News from the Barn' section we will be featuring news and photos from Spruce Creek Fly-in, the world's greatest aviation community. With over 1600 homes, and not all of them are hangar homes, and home to over 3000 people, there are over 650 airplanes based at Spruce Creek. But it's not all about aviation at Spruce Creek - there's golf, tennis, motorcycling and much more, as well as a Country Club and the Downwind restaurant right alongside Beech Boulevard - a major taxiway in the center of the airport. EAA Chapter 288 (Daytona Beech) meets at Keith

Phillip's hanger on the other major taxiway - Cessna Boulevard. Then there's the Gaggle Flight, which is quite something in its own right. Every Saturday morning (and sometimes on Wednesday too) members of the Gaggle Flight meet at The Big Tree which sits right in the middle of the airport. Upwards of 30 aircraft depart in flights of 3 or 4 (and sometimes more) flying out to breakfast. The arrivals back are usually spectacular, with overhead breaks the norm. Our North America editor, Steve Wood, is part of Goofy Flight - named after his GlaStar which has the

special registration N-600FY. Steve even has 'goofy' smoke on his airplane which can 'puff' or be continuous at whim. Everyone has great fun at Spruce Creek Fly-in which perhaps explains why there's a sign inside the main entrance which reads "Caution - Children And Adults At Play".



























Photo: Marty Stephens





Photo: Marty Stephens

















Dave Henning landing with photographer Marty Stephens on-board

Photo: Gary Rosier



# WINGS OVER CAMARILLO

## AIRSHOW

### Wings Over Camarillo

August 20-21, 2016

By Jim (Flybum) Pratt

Camarillo, CA is located north of the Los Angeles area just off of Highway 101. The airport is right next to the freeway. The area is known for its agriculture and its vast farmland. The weather for the weekend airshow was perfect. Sunny and breezy, in the low 80s.

Over the past 6 years, the Camarillo Wings Association, a 501 (c) (3), has distributed over \$250,000 in Air Show net profits to participating non-profit groups that promote youth in science and aviation. This was their 36<sup>th</sup> annual air show.

Camarillo Airport is quite active and there are a lot of interesting aircraft based there. For the airshow, they are able to also draw on places like Chino Air Museum for antiques and warbirds. Aircraft performing included P-51, Hellcat, Bear Cat, Spitfire, Zero, P-47, N-9 Flying Wing, P-40, C-47s, B-25s, CJ-7, Navions, PT-22s, C-43, HU16, VTU H-1. You can't beat this for a line-up of beautiful war birds.

### Performers

**Vicky Benzing** – an accomplished pilot, sky diver, aerobatic competitor, and Reno Racer. What more can you ask of a woman? She has logged 6000 hours of flight time and 1100 parachute jumps. She holds an ATP rating and commercial ratings in seaplanes and helicopters. She began her training with Wayne Handley. At the Reno Air Races you will find her in her L-39 Albatross jet and her Lancair Legacy. At this air show she performed in her modified Stearman. She is a favorite here in California.

**John Collver** - known for his aerobatic routine in his SNJ “War Dog”. He has logged over 14,000 hours of flight time in over 50 types of aircraft. What I like about his act is that his plane is so photogenic. I don't think I have ever taken a bad picture of his performance. It must have something to do with the color combination and the low level, close in performance. He has been performing at California air shows for years but I never get tired of watching his act.

**Judy Phelps** – 2011 National Flight Instructor of the Year and several other awards set Judy apart from the crowd. She has logged over 7,000 hours since 1994. She flies a modified Pitts S-2.



**Dr. D** – Dr. Frank Donnelly flies a 1946 Taylorcraft, bringing back old-time aerobatics. He has flown 110 performances at air shows. He revived Duane Cole's clipped-wing Taylorcraft act, developing his own style in the process. He has logged 8,000 hours of flight time.

**Tim Just** – flies an Extra 300 S. He was a member of the U.S. Unlimited Aerobatic Team and won a bronze medal at the World Aerobatic Championships in Foligno, Italy. He is a UAV pilot with over 25 years of experience.

**West Coast Ravens** – this formation demonstration group consists of eight Van's RV aircraft, many of which were built by the owners. This organization is actually much larger than that as they have flown as many as 32 aircraft in one formation (maybe more). They come to the Fresno area where I live a couple times each year for practice and training and the weekend ends with a barbeque at Tim Cone's home at Sierra Sky Park. It is really something to watch when they fly tight formation and shift from one arrangement to another. These guys are highly skilled and a wonder to see. On this particular day they flew a six-ship formation and had two planes doing aerobatics. It is amazing to see so many aircraft, built from

kits, flown so well by people who do this for a hobby .

**Parachute Jumpers** – multiple jumpers parachuted out of various aircraft during the weekend.

**Warbird Flights** – All of the various WWII planes flew on both days. The European fighters flew first, followed by the Pacific theater aircraft. Where else can you see Spitfires, Mustangs, B-25s, P-40s, Hellcats, Bear Cats, Japanese Zeros, in the skies making pass after pass? Sure beats mowing the lawn. Yeow!

**The Wings Over Camarillo Air Show** ranks high on my list of air shows to attend throughout the year. It is well organized, easy to get in and out of the airport, lots of space (it doesn't feel crowded), and the people are so friendly and helpful. They had a tent setup to honor veterans, lots of vendors, and lots to look at. The weather is mild. A must see if you live on or near the west coast.

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Photos for this feature thanks to our West coast correspondents:

Jim (Flybum) Pratt - pages 71 through 80

Tim Sowell - pages 81 through 90















































































# NOSE ART & NUMBERS



In this regular Nose Art & Number feature we showcase our readers Nose Art and Special Registration Numbers. Just send in your pics, along with a bio (around 150 words) about your nose art or special registration to [noseart@speedi.tv](mailto:noseart@speedi.tv) - and don't forget, spread the word.







## MUSTANG SHELBY GT350R WITH INNOVATIVE CARBON FIBER WHEELS WINS POPULAR SCIENCE BEST OF WHAT'S NEW AWARD

DEARBORN, Mich., Oct. 19, 2016

Ford's multi-award-winning Mustang Shelby GT350R has added another accolade to its collection – a 2016 Popular Science Best of What's New Award in the Auto category.

Each year, Popular Science reviews thousands of new products and innovations and chooses the top 100 winners across 10 categories for inclusion in its annual Best of What's New issue. To win, a

product or technology must represent a significant step forward in its category.

"The Best of What's New awards honor innovations that shape the future," said Kevin Gray, Popular Science executive editor. "From life-saving technology to incredible space engineering to gadgets that are just breathtakingly cool, this is the best of what's new."

The 2016 Shelby GT350R won the award thanks to its ultralight carbon-fiber wheels – the first of their kind on a production car.

The two front wheels are insulated with a ceramic thermal barrier coating adapted from technology that is similar to what NASA used

on the space shuttle. Each 19-inch carbon-fiber wheel weighs about 15 pounds less than an equivalently sized aluminum wheel, improving the vehicle's acceleration and handling.

### ABOUT POPULAR SCIENCE

Founded in 1872, Popular Science is the world's largest science and technology magazine; with a circulation of 1.3 million and 6.8 million bi-monthly readers. In each issue, Popular Science reports on the intersection of science and everyday life, with an eye toward what's new and why it matters. Popular Science is published by Bonnier Active Media, a subsidiary of Bonnier Corporation.

## BRITISH ACTOR NICHOLAS HOULT TAKES ON UNIQUE DRIVING CHALLENGE IN NEW JAGUAR XF ALL WHEEL DRIVE

Monday 26 September, 2016:

\* Star of Mad Max, Fury Road and X-Men is the latest contender to take on Jaguar's 'Smart Cone' driving challenge

\* New Jaguar XF AWD put through its paces on a unique low-grip course

\* Sign up for the 'Smart Cone' challenge as part of Jaguar's Art of Performance Tour now taking place across Europe: [click](#)

\* Watch Nicholas' 'Smart Cone' performance in the Jaguar XF AWD here: [click](#)

British actor Nicholas Hoult, known for his roles in blockbuster films including *Mad Max* and the *X-Men* series, has become the second Jaguar ambassador to tackle the 'Smart Cone challenge' after F1 driver Romain Grosjean set the score to beat earlier this year.

It comes as Nicholas' brand new film *Collide*, which also features

Felicity Jones, Anthony Hopkins and Ben Kingsley, hits cinemas across Europe. The film features Nicholas behind the wheel of a Jaguar XF, as well as the Jaguar F-TYPE as the ride of

choice for Ben Kingsley's character.

For the unique 'Smart Cone' challenge, Nicholas put the Jaguar XF AWD R-Sport through its paces around a course situated in the beautiful backdrop of rural Sardinia, where the Art of Performance Tour visited in August. The course was built on a low-grip sandy surface, pushing both Nicholas and the AWD capability of the XF to the limit.

The Smart Cone course uses wireless technology to randomly illuminate pairs of cones to set out a different route each time. With millions of different potential options taking place in real time, the technology provides a unique test of driving skill, precision and reactions.

The challenge is part of the Art of Performance Tour – a worldwide tour for Jaguar fans that provides the opportunity to drive the latest Jaguar products. To get behind the wheel and challenge Nicholas' score of 42000 and Romain's score of 49032 points, sign up here - [click](#)

Nicholas said: "I've loved getting behind the wheel of the new

*Jaguar XF AWD R-Sport. Driving scenes in films can be a challenge – everyone expects you to be a superstar even behind the wheel and I'm definitely not a pro driver – so it's good to be able to put my skills to the test in a safe environment.*

*The XF AWD R-Sport is great – it does a lot of the work for you. I was driving on a particularly challenging surface with lots of sand and dust but the car just gripped and performed. It was really fun to be able to compare driving the car here to some of my driving experiences when filming and hopefully I've done myself justice!"*

The new all-wheel drive option is available for the 2.0D 180 AWD R-Sport variant of the model. It brings Jaguar's Intelligent Driving Dynamics system, shared by the F-TYPE AWD, to the executive saloon. With the ability to transfer torque to the front axle when it senses a loss of traction, the system provides surefooted capability across all surfaces.







## JAGUAR LAND ROVER OPENS ICE DRIVING ACADEMY

20 October 2016

**Jaguar Land Rover has opened its first ice driving academy, offering a once-in-a-lifetime driving experience and travel adventure on the edge of the Arctic Circle**

\* First Jaguar Land Rover ice driving academy offers thrilling experiences on a frozen lake in Lapland

\* Feel the precision and capability of high-performance Jaguar F-TYPE, F-PACE, Range Rover Sport and classics including the Jaguar Mark II and Land Rover Series I

\* For more information and to book: [click](#) here

Based at the company's cold-weather testing facility in Lapland, Sweden, guests at the Ice Academy will have the opportunity to push themselves

to the limit in Jaguar and Land Rover high-performance vehicles. With expert tuition, customers can experience the Jaguar F-TYPE, F-PACE and Range Rover Sport in sub-zero temperatures on carved ice tracks on a vast frozen lake.

A unique itinerary with classic vehicles is also available. Guests can experience how to handle the Jaguar MKII, MKVII and XK150, and Land Rover Series I, Series II and Series III without modern brakes, power steering or traction control. "Our vehicles are built and tested to perform in the most extreme conditions. At the new Ice Drive



Academy, guests can learn how to push themselves to their limit in their favourite Jaguar and Land Rover models and see what they can really do, in a truly unforgettable Arctic setting."

MARK CAMERON

BRAND EXPERIENCE DIRECTOR, JAGUAR LAND ROVER

The three- and four-night programmes, which start from €2,490, include accommodation meals, transfers and professional drivers to help guests develop their skills and have a truly unforgettable experience. Bookings are now being taken for trips from January 2017.

Renowned for mountainous landscapes and forests, Lapland is also the perfect base for guests to experience the Arctic Circle with snowmobiling and husky safari trips available within easy reach of the Academy.

## Agile, versatile, electrifying: The MINI Cooper S E Countryman ALL4

25 October 2016

Characteristic MINI driving fun is now available in fascinating, sustainable form. The MINI Cooper S E Countryman ALL4 is the first model of the British premium brand in which a plug-in hybrid drive provides the option of mobility that is purely electric and therefore emissions-free, in addition to offering the thrill of athletic agility and supreme versatility.

The job of providing efficient forward propulsion is shared between a 3-cylinder petrol engine and a synchronous electric motor. Together they produce a system output of 165 kW/224 hp. Equally impressive is the average fuel consumption of 2.1 litres per 100 kilometres and the CO2 emissions figure of 49 grams per kilometre (EU test cycle figures for plug-in hybrid vehicles). The MINI Cooper S E Countryman ALL4 is thus the perfect vehicle for urban target groups who wish to enjoy the benefits of purely electric mobility when commuting between home and work every day, for example, while at the same time benefiting from unlimited long-distance suitability at the weekend.

The MINI Cooper S E Countryman ALL4 combines the variable space concept of the new model generation's largest member with the sustainability of BMW Group eDrive technology and an electrified all-wheel drive system. The front



wheels are powered by the combustion engine, the rear wheels by the electric motor. The MINI Cooper S E Countryman ALL4 is able to run on electricity alone not just in urban traffic but far beyond, too – at a top speed of 125 km/h and with a range of up to 40 kilometres. Drawing on the power of both drive forms, it offers driving fun away from surfaced roads, too. "The plug-in hybrid concept perfectly matches the new MINI Countryman because it offers intelligent all-wheel drive as well as being able to run on electricity alone both in urban areas and over longer distances, too. This is unique in the segment," says Uwe Seitz, MINI Cooper S E Countryman ALL4 project manager.

MINI TwinPower Turbo and eDrive technology combined. The plug-in hybrid drive of the MINI Cooper S E Countryman ALL4 combines the best of two worlds. The familiar space under the bonnet is occupied by a 3-cylinder petrol engine with MINI TwinPower Turbo Technology from the latest generation of the BMW Group engines. From a capacity of 1.5

litres this mobilises a peak output of 100 kW/136 hp. The maximum torque of the engine is 220 Newton metres, which goes on stream at 1 250 rpm. In the MINI Cooper S E Countryman ALL4, the combustion engine is combined with a modified 6-speed Steptronic transmission. This transfers its power to the front wheels based on the characteristic MINI principle.

The second power unit of the MINI S E Countryman ALL4 is an electric motor that is housed under the luggage compartment floor. Designed according to the principle of a hybrid synchronous motor, the electric drive offers an output of 65 kW/88 hp – which is particularly high considering its size and weight – and generates a maximum torque of 165 Newton metres that is characteristically available directly from standing. In addition, it provides constant power delivery even in high engine speed ranges as well as a very high level of efficiency. The electric motor directs its power to the rear axle via a two-stage single-speed transmission.



## BENTLEY BENTAYGA DIESEL: EFFORTLESS DRIVING WITH PEERLESS LUXURY

\* The first diesel Bentley – power, refinement and range

\* New-generation, triple-charged 4.0-litre V8 engine develops class-leading 435 PS (429 bhp) and 900 Nm (664 lb.ft.) Torque

\* World's fastest diesel SUV: 0-100 km/h in 4.8 seconds and top speed of 270 km/h (168 mph)

\* Bentayga's go-anywhere grand touring capability further enhanced with a 1,000 km range potential  
Lowest CO2 output of any Bentley – 210 g/km

(Crewe, 21 September 2016)

Bentley Motors today announces full details of the first diesel model in the iconic British brand's history – the Bentayga Diesel.

At the heart of the world's fastest and most powerful luxury diesel SUV is an all-new, technologically advanced, triple-charged, 4.0-litre, 32-valve V8 engine. Developing 435 PS (429 bhp) and 900 Nm (664 lb. ft.) of torque, the Bentayga Diesel hits a top speed of 270 km/h (168 mph) and can accelerate from 0-100 km/h in 4.8 seconds (0-60 mph in 4.6 seconds).

Bentley's Crewe-based engineers have developed a V8 powertrain to

deliver an authentic Bentley driving experience. Peak torque is available from very early in the rev range (just 1,000 rpm), which makes progress in the Bentayga Diesel truly effortless.

New clean technology gives the Bentayga Diesel the lowest CO2 emissions of any Bentley, as well as a range of over 1,000 km (621 miles) – allowing owners to, for example, drive from London to Verbier, Bordeaux or the Scottish Highlands on a single tank.

Inside, the Bentayga Diesel retains the innovative features, advanced technologies and handcrafted luxury for which the Bentley Bentayga is renowned.

Wolfgang Dürheimer, chairman and chief executive of Bentley Motors, said: "The Bentayga Diesel represents a moment of immense



significance in Bentley's history, by giving the world its fastest luxury diesel SUV. Immense power, grand touring capabilities and superb refinement – this is a true Bentley. Only Bentley could produce a car so powerful, yet so refined."

Clean, Powerful Performance – V8 Engine Offers Sublime Capability

The Bentayga Diesel retains the dynamic performance of the Bentayga W12, while introducing clean technologies and enhanced range.

The next-generation 4.0-litre V8 engine, mated to a ZF eight-speed automatic transmission, develops a class-leading 435 PS (429 bhp) and 900 Nm (664 lb. ft.) of torque. Variable-geometry, sequential twin-scroll turbochargers are powered by the exhaust gases, while a third electric supercharger – powered by Bentley's innovative 48V system – spools up within 30 microseconds to eliminate turbo lag. The effect is effortless, seamless power delivery across the entire engine-speed range – the quintessential Bentley driving experience.

This enables the Bentayga Diesel to deliver a 0-100 km/h time of 4.8 seconds (0-60 mph in 4.6 seconds) and a top speed of 270 km/h (168 mph).

An immense amount of torque is available from very low speeds, with peak torque achieved from just 1,000 rpm, for both seamless on-road

performance and exemplary off-roading ability. The immediate flow of power complements the traditional, class-leading refinement and performance customers have come to expect.

## ROLLS-ROYCE VISION NEXT 100 MAKES NORTH AMERICAN DEBUT

11.10.16

*"Today, Rolls-Royce, the world's leading luxury brand, has defined the future of luxury mobility. The Grand Arrival of the Rolls-Royce VISION NEXT 100 boldly points to a bright future for our marque where our patrons' individual demands for complete and authentic personalisation will be met through an exquisite fusion of technology, design and hallmark Rolls-Royce craftsmanship."*  
Torsten Müller-Ötvös, Chief Executive Officer, Rolls-Royce Motor Cars

"With the Rolls-Royce VISION NEXT 100 we were mindful not to dwell on the past. We wanted to be as innovative as possible and at the same time transcend the design history of the marque." Giles Taylor, Director of Design, Rolls-Royce Motor Cars

The Rolls-Royce VISION NEXT 100, codenamed 103EX, today made its North American debut at the historic Barker Hangar in Santa Monica, California. 103EX is the marque's first ever pure 'Vision Vehicle' and defines the future of luxury mobility. It presents an intriguing and aesthetically dynamic vision of the future of luxury mobility – a completely personal,

effortless and autonomous Rolls-Royce experience, wrapped in a design that ensures a 'Grand



Sanctuary' for its occupants and a 'Grand Arrival'.

103EX is one of four visionary creations announced by the BMW Group in Munich on 7 March 2016, as it launched its centenary celebrations.

In addition to being the centenary of the BMW Group, 2016 also represents a seminal moment in the history of Rolls-Royce Motor Cars. For Rolls-Royce, the end of production of the seventh generation Phantom – considered by aficionados to be "the best car in the world" – represents the completion of the first phase of the Rolls-Royce brand's renaissance under BMW Group custodianship. The success of Phantom, Ghost, Wraith and now Dawn serves as the foundation for a bold new chapter.

103EX is the vision of the Rolls-Royce Motor Cars design team, led by Director of Design, Giles Taylor.

In the spirit of the great coach-built cars of the past, Rolls-Royce will create the chassis of the future, hand-built from the most advanced materials and powered by a zero emissions powertrain.

The Grand Arrival  
The very size of 103EX announces the importance of its precious cargo. At 5.9 metres long and 1.6 metres high, it mirrors the perfect dimensions of today's Phantom Extended Wheelbase, whilst the ever

constant Spirit of Ecstasy grows in stature, harking back to the regal Phantoms of the 1920s. Hand-crafted by the finest European glassmakers of today, she lights the way to the future of luxury.

She is poised atop the re-imagined, yet still iconic, Pantheon grille with the red Double-R badge of an experimental Rolls-Royce. Whilst this radical new design language also contributes to an effortless, unruffled journey thanks to improved air flow and reduced air resistance, its unquestioned drama delivers a grand arrival.

"The Grand Arrival gesture of the Rolls-Royce VISION NEXT 100 creates a stage for our important passengers as they arrive at their ultimate destination," comments Taylor. "It is an expression of our intrinsic understanding of the possibilities for a true luxury brand and the desires of its customers."

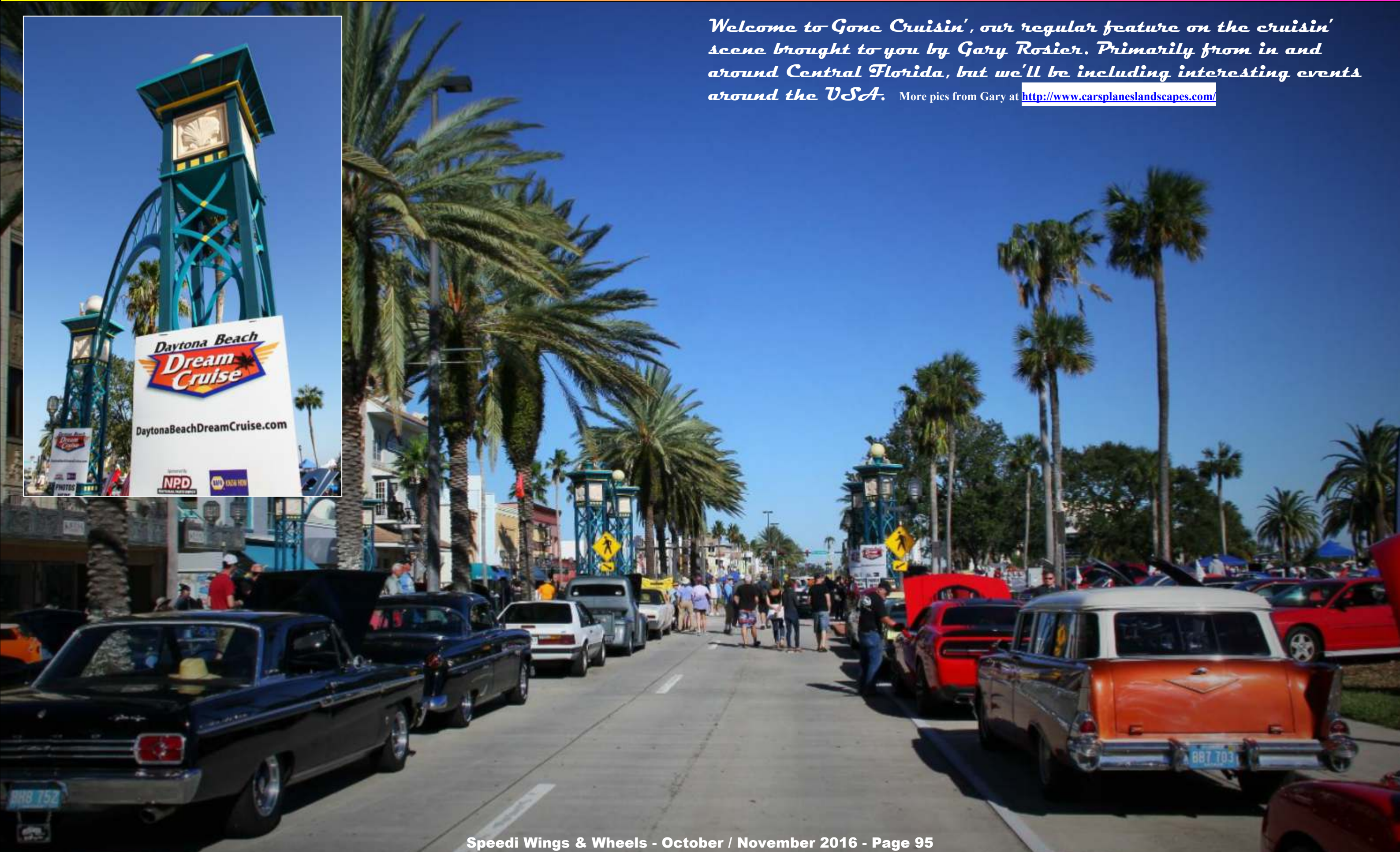


# GONE CRUISIN'

Gary's Hot Rods & Cruisers



Welcome to Gone Cruisin', our regular feature on the cruisin' scene brought to you by Gary Rosier. Primarily from in and around Central Florida, but we'll be including interesting events around the USA. More pics from Gary at <http://www.carsplaneslandscapes.com/>





























































# CALIFORNIA CAPITAL AIRSHOW



Photos for this feature:

Jim (Flybum) Pratt - Pages 110 through 119

Tim Sowell - Pages 120 through 129





**California Capital Airshow 2016**

As the airshow season draws to a close, it has been a good year with relatively great weather (not too hot, not much rain.) We did get rained out at Ft. Wayne Airshow just before the Thunderbirds were scheduled to perform, but other than that things have gone great. Upon entering this event, we were greeted with the vastness of the old Mather Air Force base and the number of large aircraft that could be seen from a distance like the C-5A Galaxy, and the UPS Boeing 777, the KC-135 tanker, and FIFI the B-29 bomber. The walk from the parking lot, through the gate, and to the far end of the flight apron must be about two miles. Hundreds of vendors, display aircraft, chalets that ran almost the full length of the

base, military recruitment displays, and police and fire equipment made this a very interesting place. The estimated attendance for the two-day weekend was 105,000 people, so this was no small event.

The gates opened at nine, allowing three hours to explore the grounds prior to the start of the airshow if you arrived early. As a photographer, that amount of time was needed to cover everything. The UPS aircraft, the C5-A, and the KC-135 were open for viewing. It boggles the mind to see the size of these aircraft and the amount of payload they can carry. It has been just over 110 years since aviation was in its infancy. We have come so far.

FIFI, the B-29 taxied out and took

off prior to the airshow starting. It had been restored a couple of years ago and what a beauty she is. I believe rides are available and they usually run around \$1,200. That seems like a lot of money, but how much is an experience that you will remember the rest of your life worth? Very few people have actually ridden in a B-29. I used this type of reasoning to ride in a B-17 several years ago and I will never forget that ride. The B-29 is a longer reach, but someday...

The Patriotic Opening Ceremonies included the U.S. Army Golden Knights parachute team, Mike Wiskus flying the Lucas Oil Pitts Biplane (400 hp), and Bill Braack and the Smoke-N-Thunder Jet Car doing the honors with more to come later.

The Golden Knights put on a full performance with several jumpers parachuting into the airshow grounds landing on target to the amazement of the crowd.

The U.S. Coast Guard flew rescue operations with their helicopter and HC-144A Ocean Sentry maritime patrol aircraft (looks like a two-engine mini-version of the C-130.) The Royal Canadian Air Force took the stage next with its CF-18 Hornet Tactical Demonstration. The CF-18 had a wild paint job to commemorate the British Commonwealth Air Training Plan in Canada and its significant contribution to the Allied victory of World War II.

Mike Wiskus did a second performance with his Pitts along

with Bill Braack and his jet car. They raced with the jet car winning. What do you expect with a 10,000 hp jet car matched against a 400hp Pitts?

World War II in the Pacific was next, with the performance starting off with a Japanese aircraft bombing the airfield. A P-40 came to the rescue along with a PBJ bomber (Navy B-25). As the battle grew in intensity, a P-38 Lightning appeared on the scene along with a TBM Torpedo Plane, a Douglas Dauntless, an F4-U Corsair and two P-51 Mustangs. There were explosions all along the runway with a final wall of fire as the B-29 made a bombing run.

The United States Air Force F-16 Viper Demonstration Team showed

the agility of the F-16 flying near-supersonic and also in the slow-flight regime.

Next came the United States Air Force Heritage Flight that included a P-51 Mustang and an F-16 Viper. This was done as a living memorial to those who have served and those who are currently serving in the military.

Time for the Blue Angels. The airshow announcer told the crowd that the flight leader for the Blue Angels had suffered a food-borne illness and the group would be unable to perform. This ended the airshow on Saturday. The good news is that he recovered on Sunday and they did perform then.

Jim (Flybum) Pratt













































































Photos for this feature: Gary Rosier





























































































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