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**GATOR MODELERS MAKE THE GAINESVILLE SUN FRONT PAGE!**

**Model builders enjoy challenge of detail work**

The Gainesville Sun  
Tuesday, June 26, 2018



**New budget, laws take effect soon**

By Jim Turner  
The new series of Florida laws that take effect on Sunday, June 26, include a new state budget that tops \$68 billion. Lawmakers sent 105 bills to Scott from the session that ended in March. The governor vetoed two, while signing the rest.

Of the signed measures, 105 will hit the books Sunday. Of the remainder, 54 went into effect upon Scott's signature, with the rest effective in October or in 2019. Among the measures slated to take effect Sunday:

**STATE BUDGET**  
HB 0001: Lawmakers passed an \$68.7 billion budget for the 2018-2019 fiscal year. The spending plan increases public-school funding by \$20.50 per student, though Democrats and many education officials have argued that a far lower amount will be available for basic school expenses.

Among other things, the budget will provide \$100.8 million for the Florida Forever land preservation program and offer a \$130 million increase in Medicaid funding for nursing homes. Lawmakers also included \$3.1 billion in reserves and put money into such issues as Everglades restoration, beach restoration, "pre-eminent" universities and helping universities attract "world class" faculty.

**TAX PACKAGE**  
HB 7001: A roughly \$170 million tax-cut package provides relief for farmers and property owners impacted by Hurricane Irma, provides a sales-tax "holiday" in August for back-to-school shoppers and retroactively covers a disaster-preparedness tax "holiday" in early law that coincided with the start of hurricane season. The package also includes reducing commercial use tax from 1 percent to .75 percent, though that will begin Jan. 1.

**EDUCATION**  
HB 7065: The law expands the size of voucher-like



Completed models sit on a table during the Gator Modelers meeting at Oak Hall School on June 19. The club has been active since 1992 and members build cars, aircraft, figures, dioramas, tanks and everything else in plastic, clay, wood and metal. [Lauren Bacho/Staff photographer]

**BEATING THE HEAT**



Tyheka Grimes plays in the water sports with her kids, Justin Sykes, 8, center, and Jonathan Sykes, 13, at the splash pad part of Depot Park on Monday. (DUSTY PHOTOS BY BRAD WOODWARD)



▲ Tyheka Grimes plays in the water sports with her son Jonathan Sykes.



**68-year-old study seeks GHS alumni**

By Deborah Strange  
A decades-old study is about to research predictors of dementia, and former Gainesville High School students are desired participants. Project Talent is a longitudinal study that began in 1960, developed by the founder of the American Institute for Research. More than 400,000 students from 1,100 high schools participated.

Gainesville High School was a randomly selected participating school in 1960. Project Talent director Susan Lapham said Monday. More than 1,200 students who graduated from the school between 1940 and 2017 took the original test.

The test measured students' aptitudes on academic subjects, their personality attributes and certain skills like memory and abstract reasoning. The students gave information on their health status, background and extracurricular activities.

Students from public, private and parochial schools across the nation were included, Lapham said.

"It truly is a national representative sample," she said.

The research project, which studies alumni, will look specifically for early



**REPORT: 86 KILLED IN NIGERIA AS FARMERS, HERDERS CLASH**

See STUBV, A6

**US OKs marijuana-based drug for seizures**

By Matthew Perrowe  
The Food and Drug Administration approved the medication, called Epidiolex, to treat two rare forms of epilepsy in people 2 years and older. But it's not quite medical marijuana.

The strawberry-flavored syrup is a purified form of a chemical ingredient found in the cannabis plant — but not the one that gets users high. It's not yet clear why the ingredient, called cannabidiol, or CBD, reduces seizures in some people with epilepsy.

By its drugmaker GW Pharmaceuticals, it studied the drug in more than 500 children and adults with hard-to-treat seizures, overcoming numerous legal hurdles that have long stymied research into cannabis.

See DRUG, A6



**By Summer Jarro / Correspondent**  
**Posted Jun 25, 2018 at 4:14 PM**  
**Updated Jun 26, 2018 at 10:29 AM**

To the members of the Gator Modelers club, their hobby is an art form. Many in the club, which drew 18 people to a monthly meeting last week at Oak Hall School, have built models since they were children and just never stopped. Club members sat semi-circle around two large rectangular tables and a circular table covered with more than 30 models they've built, things like tanks, a Viking ship and an F-86 Sabre Jet. Gator Modelers is one of over 200 chapters of the International Plastic Modelers Society (IPMS), an organization dedicated to model-builders.

Volume 101, Issue 131  
Home delivery: 378-1418  
News Fax: 378-1012

## **GATOR MODELERS MAKE THE GAINESVILLE SUN FRONT PAGE!**

**CONTINUED:** The Gainesville chapter was co-founded in 1991 by Bruce Doyle and Larry Bayer as a spinoff from the Ocala IPMS club. “So, it’s a model group,” said Jack Mugan, the club’s president. “It’s a society kind of thing with a lot of social activity involved and that’s what happens in the chapter is it becomes kind of a combination of common interest and hobby.” Gator Modelers has about 30 members. It’s open to people of all ages who pay a yearly membership fee of \$20, he said.

Vice President Anthony Kwan has been a member for two years and says it’s great fun. “I think for me it brings back my childhood, building models,” Kwan said. “I’ve been doing it for a long time, and then we meet some great guys. We have a lot of fun.” Kwan enjoys building model airplanes because they remind him of when he served in the Air Force from 1972 to 1992. “Even when I was flying airplanes, I loved to do models,” he said. Kwan’s favorite model was a B-52 Stratofortress, which he used to fly in the Air Force.



Gator Modelers has meetings the third Tuesday of every month. The meetings usually include a show-and-tell portion where members explain how they made the model, what type of paint they chose and what tools it required, Kwan said. Guest speakers have come to share their stories, some of which are connected to models the Gator Modelers have built. The club has had Vietnam War veterans, a crew chief for helicopters and a member of the Red Tails come to speak, Mugan said. “It’s entertainment for us and informational,” he said. At Tuesday’s meeting, club historian Bruce Doyle gave a presentation on the Fédération Aéronautique Internationale, or International Aeronautical Federation, an organization for air sports, and some of the airplanes that have raced for records.

Besides entering regional and national competitions, Gator Modelers has its own chapter competition every six months. Members vote on the best model and the person whose model wins gets a gift certificate and the honor of setting the rules for the next competition. May’s competition was to build a model of something that races. The winner, who made a racing motorcycle model, chose the next contest theme: 50 shades of gray, Mugan said. “Anything that you build it’s got to have some gray in it,” he said.

Models come in kits with materials made of plastic, clay, wood or metal. Modelers can use other materials, such as paint or lights, to decorate their models or add more to it. Most model builders fancy planes, tanks or cars, but members can build whatever they like.

Member Anthony Ivone, who’s been building models since he was 5, likes making ship models. “I’m really into the ships because there’s such a history with them,” Ivone said. During Tuesday’s meeting, Ivone brought his models of the Mayflower, a Viking warship and a Roman Warship. Some of his models, such as his Mayflower model, took about six months to build and required a lot of work, research and attention to detail to create. And that’s why he keeps at it, Ivone said. “The love of creating something,” he said. “It’s a challenge.”



# GATOR MODELERS

## GAINESVILLE, FLORIDA

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**Frank Ahern**  
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**Bruce Doyle**  
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**Tracy Palmer**  
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### Next meeting:

**Tuesday, July 17 at: 6:30 PM; at Oak Hall Library  
 8009 SW 14<sup>th</sup> Ave Gainesville FL  
 (See the map on page 43)**

### Down to the last detail



Completed models sit on a table during the Gator Modelers meeting at Oak Hall School on June 15. The club has been active since 1982 and members build cars, aircraft, figures, dioramas, tanks and everything else in plastic, clay, wood and metal. LAUREN BUCHHEIT PHOTOGRAPHY

**Gator Modelers club members enjoy challenge of modeling**  
 By Suzanne Jarvis  
 Contributor

To the members of the Gator Modelers club, their hobby is an art form.

Many in the club, which drew 40 people to a monthly meeting last week at Oak Hall School, have built models since they were children and just never stopped. Club members sat concentric around two large rectangular tables and a circular table covered with more than 50 models.

The Gainesville chapter was co-founded in 1982 by Bruce Doyle and Larry Bayer



Members of the Gator Modelers club gather around a table of their models. LAUREN BUCHHEIT PHOTOGRAPHY

International Plastic Modellers Society (IPMS), an organization dedicated to model-builders.

"So, it's a model group," said Jack Muga, the club's president. "It's a society where members explain how they made the model, what type of paint they chose and what tools it required, Kwan said.

Guest speakers have come to share their stories, some of which are connected to models the Gator Modelers have

### MODELS

From Page 10

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"I think for me it brings back my childhood, building models," Kwan said. "I've been doing it for a long time, and then we meet some great guys. We have a lot of fun."

Kwan enjoys building model airplanes because they remind him of when he served in the Air Force from 1972 to 1974.

"Even when I was flying airplanes, I loved to do models," he said.

Kwan's favorite model was a B-29 Superfortress, which he used to fly in the Air Force.

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Completed models sit on a table. LAUREN BUCHHEIT PHOTOGRAPHY

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"Anything that you build it's got to have some guy in it," he said.

Models come in kits with materials made of plastic, clay, wood or metal. Modelers can use other materials, such as paint or light, to decorate their models or add more to it. Most model builders fancy planes, tanks or cars, but members can build whatever they like.

Member Anthony Inoue, who's been building models since he was 5, likes making ship models.

"I've easily into the ships because there's such a history with them," Inoue said.

During Tuesday's meeting, Inoue brought his models of the Mayflower, a Viking warship and a Roman Warship.

Some of his models, such as his Mayflower model, took about six months to build and required a lot of work, research and attention to detail to create. And that's why he keeps at it, Inoue said.

"The love of creating something," he said. "It's a challenge."

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# Prez Sez.....

By Jack Muga



Well the fourth of July has come and gone once again. I hope everyone enjoyed the holiday and got their fill of food and fireworks. Funny, when we were kids, that was what it was all about...lots and lots of fireworks. Later, when we were raising our own families, it was picnics and three-day weekends and of course more fireworks.

Now that the kids are all grown up and have families of their own, what this holiday is all about finally comes into focus. Yes, we were taught in school in American History class all about the Declaration of Independence, but to me it was all a bit abstract, something you had to learn to pass a test. Now that I am older I can really appreciate just what was accomplished by the founding fathers.



Your executive committee, those guys who grab lunch together on the first Tuesday of each month to discuss “Club Business”, have gone and done it again. We have agreed to establish meeting themes starting next November. I know you’re thinking...great, yet another project I am going to have to squeeze in between meetings. Not so fast grasshopper, this is not the purpose of the theme idea.

Everyone is familiar with our point system that helps us identify the club modeler of the year. This will become another opportunity to collect an additional point if you bring a model, or any item that fits the month’s theme. We all have models and memorabilia laying around the man cave that we can dust off now and then to bring in for show and tell. We all cannot build a new model every month, so here is another chance to collect a point as well as share with your fellow members.

We had our fifteen minutes (seconds) of fame last month when the Gainesville Sun did an article on our club, thanks to the efforts of AJ.

The article did generate two calls with very positive results. The first was from a local modeler *Tony Barone*, who is primarily a car modeler but also builds model ships, and will be attending our July meeting. The second call was from *James Donohoe* who donated a couple of model kits, paint and brushes to the club. During our conversation he mention flying helicopters, so you know I had to ask. He will be our guest speaker at the August meeting. The August newsletter will have a brief bio, so get ready to dust of those helicopter models for show and tell.

Just a reminder, we have our semi-annual contest in progress with the theme of fifty shades of gray. Also, I hope you have started thinking about your Inter-club contest idea for 2019. See you at the meeting.

# Meeting Minutes – June 19, 2018

By Frank Ahern



President Jack Mugan opened the meeting at 6:35pm and welcomed 18 members and a guest – Don Billups, who joined the club after the meeting.

Vice President AJ Kwan welcomed Gainesville Sun reporter Summer Jarro and photographer Lauren Bacho who came to do a feature story on the club. Kwan discussed his efforts in trying to get more publicity for the club to improve community awareness of the club and its activities.

Club members were asked to bring any models they built that had won a contest prize. This resulted in a large display of models covering three tables. President Mugan decided to begin Show and Tell presentations early so members would have time to discuss their model.

The raffle drawing was held and the first drawing was won by Ed Ingersoll who selected a Tamiya British Universal Carrier. The second drawing was won by Aaron Alt, who picked the USS Dallas warship.



Because of the number of models displayed extra time was needed to get meeting model photographs. The Sun photographer also took photos of members holding the model they displayed.

This month's presentation was given by Bruce Doyle, who showed photos of the planes that set speed records in the late 1940's and early 1950's. His model display of the same planes was included in Show and Tell.

Bill Winter presented a brief "Quiz" by showing unidentified photos from the new section of the Air Force Museum and asking for members to provide identification.

This concluded the meeting at 8:30.



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# Scottcon report

By Tracy Palmer



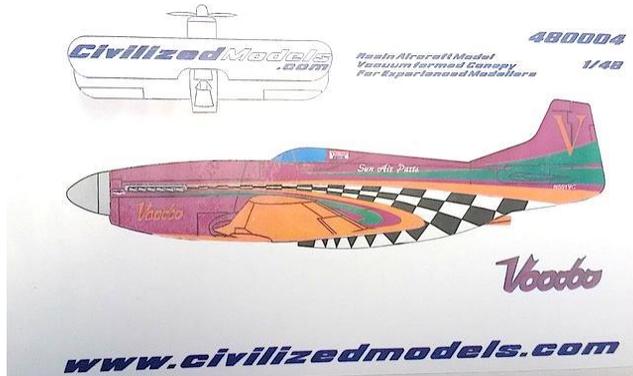
The IPMS region six model show was held on 9 June 2018. The show, also known as Scottcon, attracts modelers from all over the southeastern area of the United States. Modelers from Florida, Georgia, Tennessee, and South Carolina were present and represented. This year's attraction brought in 50 contestants entering a total of 253 models. The vendors were quite nice also and there were some goods deals and sales to be had. There was also a raffle held by the host chapter which had a lot of very interesting prizes to be won. With all these modelers and all these models there's bound to be something that is a real eye catcher. This year I thought it was the HMS Hood in 1/200 scale which was about 4 foot long. Below are some pictures from the show that I hope you will all enjoy. I hope you all get the opportunity to participate in the show next year.



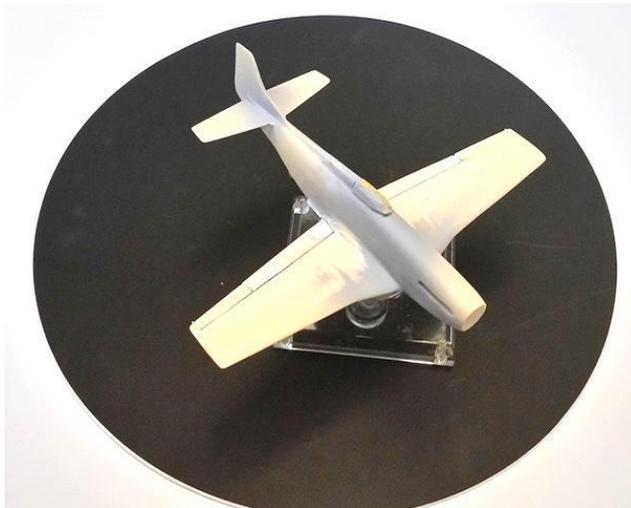
# Chasing Pylons

By Jack Mugan

It is summer, it is July and it is hot, and here in Florida that translates to humid. I do my painting in the garage and it is not air-conditioned. This means my painting projects get backed up waiting for a day when the humidity is not too bad. The longer I wait the more projects I start, and the bigger the backup gets.



I have another Voodoo in the works (see photo above) and things were going just fine until I ran into a problem with some of the resin parts. I contacted Civilized Models and they said new parts coming in the mail ASAP.



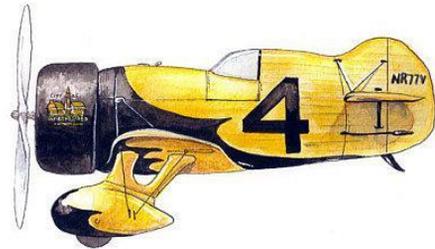
Unfortunately the package got destroyed, so more time lost, so naturally I started another project. That too ran into a snag when I misplaced the PE parts and now the weather became a factor.



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# Chasing Pylons

So, project number three comes on line. I enjoyed the Geebee project so much that I decided to start the "Z" model while waiting for parts and less humidity.



*Coors Light Spirit of America, many thanks to Coors Light Aircraft, 1998-1999*

Now the missing parts for the Voodoo arrive at last, along with my other BD5-J, but the weather continues to be an issue.

Hopefully, the humidity will drop and I can get on with completion of these projects.



# Models for Vets

By Frank Ahern

It started in a small and unexpected way. Not long after I re-entered the world of modeling, I was picking up my daughter from her job at Publix. She introduced me to an elderly black gentleman working with her. I noticed he was wearing a WW2 veteran baseball cap. She had told me before that he was a former Tuskegee Airmen, but at that time I didn't know much about them, so it didn't make a big impact.



Stephen Lawrence was a much-beloved member of the Publix front service team, ready with a smile and a joke for everyone. I asked about his time in the service. He said he was a mechanic at the Tuskegee training center. What was your favorite plane, I wondered? “The T-6 Texan” he replied. For some reason, even though I hadn't thought about it beforehand, I asked if he would like me to build a model for him. “Sure” he said, “That would be nice.”



It was a bold promise for a guy who had only built a couple of models. I was fortunate that the Revell kit is an easy build. It was not an award-winning model and I never thought to take a picture, but Stephen seemed pleased when I gave it to him a few weeks later. It taught me an important lesson – a vet isn't going to judge your model, he's just happy someone cared enough to build him one.

Encouraged by that encounter I started looking for other opportunities to honor vets with a model. It didn't take long to make contact with Gen. Paul Albritton, a member of my church who flew F-4 Phantom's in Vietnam. A guy who flew 196 combat missions deserves some recognition, and the General told me that he always wanted a model of the plane he flew, but didn't have one. I knew I was over my head with this promise and enlisted the club's help. Andy Renshaw donated the model and started the build. Jack Mugan did the painting. The result is shown in the picture on the top of the next page with Mike Martinez at a Veterans Day ceremony at Oak Hall a few years ago. The General always tells me how much that model has meant to him.



# Models for Vets



The intervening years have brought other chances to honor a vet with a model. Two of the most poignant involved vets who died shortly after they got their model.



My son's lacrosse coach flew A-6 Intruders in Vietnam. I was ready to get rid of the A-6 kit I had when he mentioned after practice one day that he wished he had a model of his plane. That's when I knew that God's providence was at work. I got the kit at the previous Christmas party, only because it was the largest wrapped box left when I picked. I was just days away from putting it in the club kit auction. Marty Hayden died from a stroke about 6 months after we gave him the model at a club meeting.

Maybe the most dramatic was the story of John Donis, a highly decorated Navy pilot I met through a mutual friend. John was suffering from lung cancer, which had been in remission for a couple of years when I offered to build his favorite plane – the A-1H Skyraider. I was about halfway through the build when I got notice that John's cancer had returned and he was going to hospice. I rushed to finish the model and gave it to him on Memorial Day two years ago. He died 5 days later. I was humbled to learn that they used the model as part of a display of his life history at his memorial service.



Other models have been given to a neighbor, a friend and a former co-worker. The latest was given to a cousin, who served in the Marines as a radar tech. He spent a lot of time working on the many electronic warfare systems in the EA6-B Prowler. I spent a lot of time on this complicated little model with tinted canopies and five different colors on the fuselage. Here is a shot of cousin Don with his model at a recent family gathering.



This story is not about me patting myself on the back, but really about my finding a way to put some meaning into doing something I enjoy. I don't enter contests, and probably wouldn't win if I did, but I do like building models. Rather than building a model, sticking it in a box and stacking it on a shelf, this way I get the fun of building without the dilemma of what to do with it, and the satisfaction of knowing that it went some vet who really appreciates it. 10

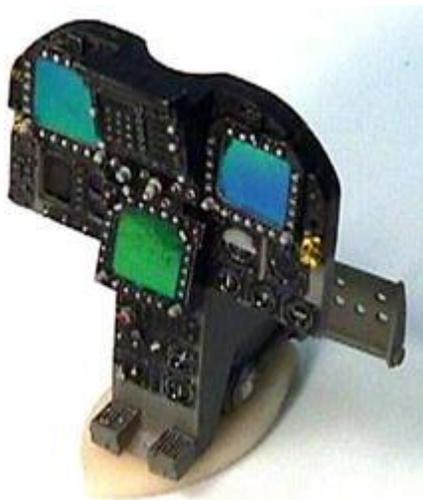
# Modelling Tips and Tricks

By: Errol Whisler

Congrats to Don Martin on winning the Spring Club Modeling Contest! Also props to Don for selecting a great theme for the Fall 2018 Club Contest! Fifty-One Shades of Gray will certainly cast a wide net of possibilities for entry. When I read the June newsletter and saw the theme I started contemplating my entry for the Contest. While going through my stash, I identified 3 possibilities, from 3 different genres that would fall into the category of gray..



Without revealing what my entry is going to be.. mostly because I still haven't decided, I was perusing various "pins" on Pinterest involving models and dioramas and came across this neat little tip on how to make CRTs (cathode-ray tubes) for your modern aviation and sci-fi models in an article on HyperScale Modeling web site called Dave Roof's Technique for Making CRTs using Stardust Confetti by Kelly Quirk. Not sure why Dave didn't write the article himself but here is the link: [http://www.clubhyper.com/reference/crtkq\\_1.htm](http://www.clubhyper.com/reference/crtkq_1.htm)



You got to admit these CRTs.. look pretty awesome! The article indicates that the "Stardust Confetti" produced by Amscan was found in his local hobby store for about \$2. I looked on line at the Hobby Lobby and Michael's web sites and did not see the "Stardust" but they did have some other Amscan products. I did find the Amscan Stardust Confetti on Amazon. It comes in many colors but I am pretty sure Dave uses the iridescent variety.

The iridescent package retails for \$3.38 but I can't tell if it meets the description in the article of "clear looking confetti". The \$10 shipping cost puts this option out of the realm of reasonable. However, I am sure there are other

"clear looking" plastics that could be substituted in place of the confetti. I'll keep a look out for the confetti and possible substitutes. I really like the effect and through I would pass it along. I'll keep you posted and hopefully it will show up in my Fall Club Contest entry! Happy Modeling everyone!



# From Paul's Toolbox

## Photographic Backdrop Frame



By Paul Bennett

A few months back I described a photo illumination frame I had built. This is the follow-on for supporting a backdrop. There were several design criteria I wanted to meet. The frame had to be collapsible for ease of transportation. Actually transportation is starting to become a problem. The backdrop itself had to be removable to allow for cleaning and ironing.

I used the basic design for the illumination frame as a beginning. Using the same scrap  $\frac{3}{4}$ " plywood I used previously as a source, I cut a pair of circles (used an old bowl for shaping) for the base pads and two holders for the backdrop bar. I cut four braces from old modeler's plywood scraps (photo below).



I cut two 24" lengths for uprights and a 26" length for the crossbar. I also dug out a  $\frac{5}{16}$ " length of dowel rod for the joining pins. I cut a piece of six foot  $\frac{1}{2}$ " dowel rod into two 32" pieces for supporting the photo cloth. For transporting the cloth and  $\frac{1}{2}$ " dowel I purchased an art storage tube. Here are the collected parts prior to assembly (photo below).



backparts02.JPG (152 KB)

# From Paul's Toolbox

I cut short pins of 5/16" dowel and drilled holes in the base pads and crossbar. I then glued and inserted a single dowel pin in the center hole of each base pad and both ends of the crossbar. I then drilled a 5/16" hole in the bottom end of both uprights. I then did a trial assembly to test initial fit (photo below).



backes01.JPG (170 KB)

From there I moved to the rod holder assembly for the uprights. The rod holding fitting was sandwiched between the plywood braces, glued and screwed (photo below). As a final step I cut and applied self-adhesive felt sheets to the bottoms of the base pads.



backem001.JPG (173 KB)

This is the completed backdrop support with rods installed. (Photo on left). The backdrop can now be removed for transport, cleaning, or even to be swapped out for one of a different color.



backfnshd01.JPG (184 KB)

Now I need to address another problem... Transporting all this STUFF! Let's see, laptop bag, camera bag, backdrop, illumination frame, and I am not even addressing whatever model(s) I may be bringing. I am looking at a small collapsible cart. We shall see.

# Product Review: Brush Magic by Deluxe Materials

By: Errol Whisler

Being relatively new back into the wonderful world of modeling, and still also a novice air brush user, I still struggle with cleaning my air brush. With all the information available on the internet it is hard to filter out what are the best methods of cleaning your brushes, air or bristled. I have been using alcohol or Windex and flushing with water.



I was recently in Orlando for work and stopped by Colonial Photo & Hobby. If you have never been there, you should check it out on your next visit to Orlando. It's a large store, about 15000 sf according to the website, with about 1/3 dedicated to photography, 1/3 to scale trains and 1/3 to RC and scale models. Great kit and paint inventory as well as a significant selection of miscellaneous items from putty, styrene, glues, you name it.



While browsing the paint selection, I overheard a conversation between a patron and one of the sales associates. The associate was an avid modeler and had several of his completed works on display. The conversation was about restoring an air brush the patron had found in a garage sale. Naturally, my ears perked up at this topic and I made my way over to the counter so I could hear better. I don't recall the associates name but without hesitation, he reached for a bottle of Brush Magic. He explained to put a few drops in the cup and wait a few minutes to let it eat up whatever dried up paint was stuck in the nozzle and nozzle cap and other parts that might have contaminates gumming up the moving parts. He also suggested wiping down the exterior of the paint brush with a rag and a little Brush Magic, but cautioned to wipe the chromed parts down with a clean wet rag very well as he has seen Brush Magic pit and de-chrome an air brush he cleaned.

I bought a bottle with the hopes of restoring my own airbrush to like new operation and have been pretty happy with it so far. I have used it twice now after a couple of heavy painting weekends, switching back and forth from acrylics, enamels, and lacquers. It seems to dissolve any dried-up paints and makes quick work of buildup on the needle. I do think it has improved my brush's performance, by cleaning up whatever has built up in there over the last year. I do not use it on a daily but when I know I'm not going to paint for 3 or more days. I have not noticed any ill effects such as pitting but I have been diligent about rinsing and wiping down the parts that I apply the solution to.

If you are looking for a cleaner, try Brush Magic by Deluxe Materials.

# Product Review: Brush Magic by Deluxe Materials

The label indicates that it is Water miscible, low odor and non-flammable. Not too sure about low odor, it has a distinctive smell but not as sharp as alcohol and you can't smell it from a few feet away like you can alcohol. It will run you \$11.99 for 125 ML at Colonial Photo & Hobby. I haven't been able to find it on Amazon or eBay.

Also, next time you are in Orlando, check out Colonial Hobby at 634 N. Mills Ave. It is located in an old Publix Supermarket building that was owned by Publix Founder George Jenkins. Another interesting side note, about Colonial Hobby, when they relocated to the current location at 634 N. Mills Ave. in October of 1973, they hired Delta Burke (then 16 years old) to be the official hostess of grand opening.



**Editors note:** Below is the product description for the Deluxe Materials web site:

## *Brush Magic*

### *Model AC19*

*Brush Magic is a powerful, non flammable brush cleaner for the rapid cleaning of all types of wet or dried paints from brushes etc. Use also to clean up and remove of epoxy, polyester & polyurethane resins and glues before they are set.*

*Washes away with water to clean surface*

*Non volatile & low odour*

*Dissolves acrylic enamel & cellulose paints, epoxy & polyester resins*

See: <https://www.deluxematerials.co.uk/gb/rc-modelling/20-brush-magic-5060243901354.html>

# Fiddly Bits

By Stretch Sprueman, IPMS# 5P-38L-1

Son of FID.bits – TID.bits

\*In last month's column the "Jinglish" cited in the Italeri McDonnell Phantom II instruction sheet was understandably a little difficult to read. Here it is verbatim in all it's glory. And I quote:

*"Richard Stephen 'Steve' Ritchie*

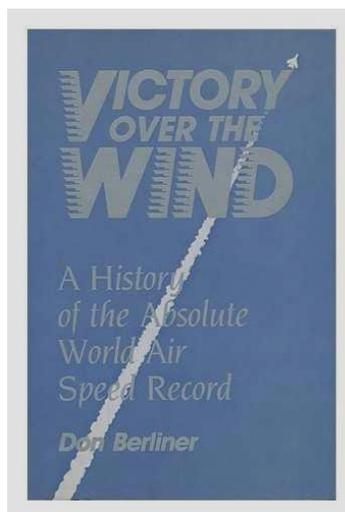
*On 1972, from may to august, flown of F-4D Phantom II, the United States Air Force pilot, became an "Ace" shooting down 5 Mig-21 thanks to the use of Aim-7 Sparrow medium range missiles. It was one of the most highly decorated pilots in the Vietnam War".....Amen!*



\* 'Need for Speed' annotated bibliography:

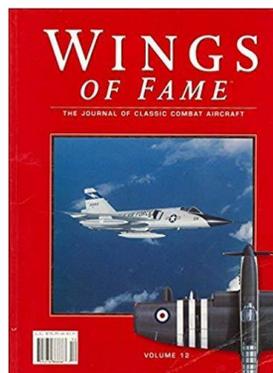
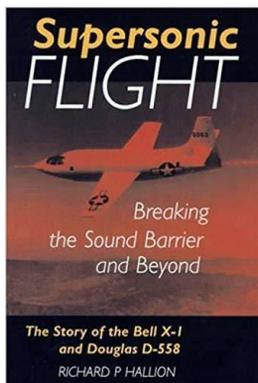
**JANE'S POCKET BOOK OF RECORD BREAKING AIRCRAFT**, compiled by Kenneth Munson, edited by John WR Taylor, 264 pp, SC, pub 1978. 2 page sketch with photo on left page and performance and historical info on facing page. From: 1906 Santos-Dumont 14 bis to 1976 Lockheed SR-71.

**VICTORY OVER THE WIND; A HISTORY OF THE ABSOLUTE WORLD AIR SPEED RECORD**, Don Berliner, 141 pp, HB, 18 pp photos, 1983. National Aeronautic Assoc official writes vignettes on all FAI record attempts from 1905 to 1982.



## Fiddly Bits

**SUPERSONIC FLIGHT; BREAKING THE SOUND BARRIER AND BEYOND- THE STORY OF THE BELL X-1 AND DOUGLAS D-558**, Richard Hallion, 1972, revised 1997 (X-1's 50th anniversary), 268 pp, HB, 24 pp photos. PhD dissertation turned into a thrilling speed quest novel-like book. Got it and read it twice on interlibrary loan. Now I have my own copy. Hallion is a talking head on dozens of Mil/Hist/American Heroes Channel documentaries.



**BELL X-1 VARIANTS, AEROFAX DATAGRAPH 3**, by Ben Guenther and Jay Miller, 64 pp, profusely illustrated, SC, 1988. Miller has also appeared in many documentaries.

**WINGS OF FAME, VOLS 1, 2, 3, 10, 11** (F-86, P/F-80, Fairey Delta 2, Ye-152-1!) & 12.

### Websites:

[thisdayinaviation.com/](http://thisdayinaviation.com/)(date) Frank found for me many of FAI a/c. Now I can do it. Thanks Frank

[aftcmuseum.org](http://aftcmuseum.org) This is at the Edwards AFB Museum. Find the You-Tube video on Chuck Yeager's 50th anniversary ride @ Mach 1.4 in an F-15. There is a great history lesson on the attempt to break the Sound Barrier. It's Hallion's book on video. (haven't figured out yet how to play the second 15 minute segment. Did I tell you I'm new at this- third week as this is written).

## Son of FID-bits, TID-bits-

\* In an earlier column when I lamented the paucity of certain models displayed at various venues- specifically P-38s & Hellcats - I mentioned that the Hellcat led all WWII American Fighters with the number of Aces produced with 311. Now here is the "Paul Harvey rest of the story":

|             |     |            |    |
|-------------|-----|------------|----|
| Hellcat     | 311 | Warhawk    | 90 |
| Mustang     | 273 | Wildcat    | 63 |
| Lightning   | 168 | Spitfire   | 12 |
| Thunderbolt | 111 | Blackwidow | 6  |
| Corsair     | 102 | Mosquito   | 1* |

## Fiddly Bits (continued)

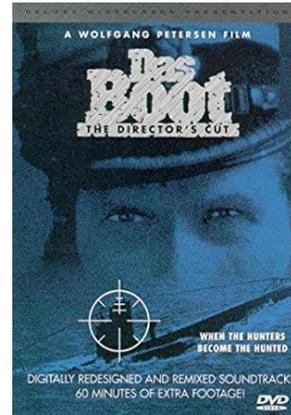
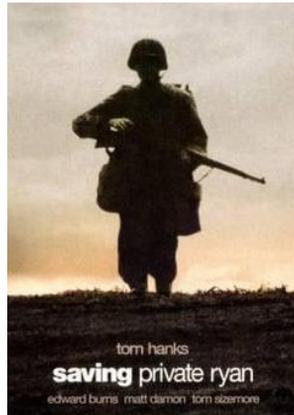
\* Lou Luma is from Federal Way, WA and flew as a night fighter pilot with the RCAF. As this is written he is still with us, and I got to meet him in 2007 when the American Fighter Aces Assoc. had their reunion in Seattle. He is a rarity as less than 40 out of 1,442 Aces are still alive.



de Havilland Mosquito F.B. VI, 3 April, 1944

Lt. James "Lou" Luma, DFC, USAF/RCAF, and his Navigator, F/O Colin Finlayson, RCAF, accounted for 5 enemy aircraft on Night Intruder and Day Bomber missions over Occupied Europe, flying 20 missions from September 1943 through April 1944.

- Over the Memorial Day weekend TCM and other channels showed a marathon of war movies. One of the films was a 1951 submarine epic - OPERATION PACIFIC - starring John Wayne, Patricia Neal, and Ward Bond. In the prologue it stated that 52 American subs were lost in the Pacific with 3500 sailors missing in action. Shortly thereafter an article in the Gainesville Sun asserted that since 1900 65 American submarines have been lost in total, and along with - if I remember correctly - 5 or 6 thousand crewmen. Dangerous duty! All the more reason to thank Ed for his service.



In my opinion - until SAVING PRIVATE RYAN premiered - the finest war movie I have ever seen was Wolfgang Peterson's DAS BOOT. This 1981 movie was produced initially as a 6-part mini-series for German TV. An edited version was then released for the theaters. I was stunned when I first saw the film, and fortunately it was in a theater - the old Center Theater on NW 13th street (Office Depot/Applebee's). Since then I have purchased a couple of DVD's of the movie, the best of which is the Director's Cut running a kidney straining 293 minutes (thank goodness for the "pause" button!). In DAS BOOT's prologue it mentions 40,000 'Deutschen D-Boot-Mannern' served in WWII, of which tragically 30,000 became 'kaput'. I read somewhere that this was the highest casualty rate for any service in any country.



## Fiddly Bits (continued)

Couple of points about the film. I have multiple DVDs so they may be borrowed (its on NETFLIX). Two, watch the movie in it's native German language with English sub-titles. It really adds to the authenticity. I've watched the movie dozens of times and the tension is still palpable.

**SPOILER ALERT:** If you have not but are planning to watch DAS BOOT, read no further. The actuality footage at the end of the film shows which RAF twin-engine a/c attacking the docked U-boat? Boston, Mosquito, or Beaufighter? Answer: "Proper British Beau-FIGHTER".



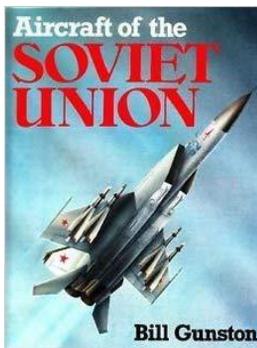
- **TIPS & TOOLS** It had to happen sooner or later. No, not that I got a computer but that my tube of filler putty finally ran out. Not Squadron 'green' nor Tamiya 'white' but "DAP DRYDEX Spackling & Nail Hole Filler", a tube of which I used for over a year and 30 plus/minus models. At \$3.47 a tube at Wal-Mart - in the paint section - it comes out of the tube pink and dries/cures white. Its water soluble so a damp finger or Q-tip (not wet, might re-hydrate and remove filler) can smooth it out, and its especially good for wing roots. When cured its perfectly sandable and I'm told it can be scribed.



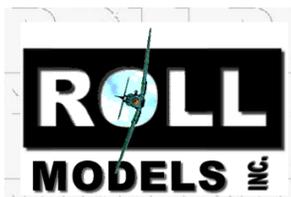
- After cutting off the tip with a sharp blade make sure and replace the cap tightly when you're finished using it. I use a 3/4" piece of contractor's tape to seal it really well. Also when re-using take a large, straightened paperclip to loosen things up.
- Wal-Mart is my 'go to' place for inexpensive supplies: Loctite superglue, Exacto blades, mini-clothespins, spray can paint, etc. It fills the gap left by Hobbytown's closing and items not found at Hobby Lobby. They're near my house and conveniently open on Sundays.

## Fiddly Bits (continued)

- The MIKOYAN E-166 Situation: Imagine my consternation in doing my "need for speed" collection when apparently there was no model kit for the Mikoyan E-166! All my references- such notable ones as JANE'S and Bill Gunston in his book ENCYCLOPEDIA OF SOVIET AIRCRAFT- referred to the



Soviet record setter as the Mikoyan E-166. But when I asked Dean's Hobby Stop, Roll Models, Rare Plane Detective- no one had ever heard of such an aircraft much less had a kit of it. Frustration continued to mount when on-line searches (thanks Bill, Frank, Larry Bayer) came up empty as well. However, there WERE pictures of a plane that looked like a Mig-21 on steroids with "E-166" painted on it's nose. "What in the wide, wide world of sports was a'goin on?"



Serendipity to the rescue! I know I've praised the 20 volume series WINGS OF FAME no end (couldn't there please be 20 more), but now volume 12 came to my "emotional rescue". While using an article in that volume to research the record setting F-106A Delta Dart, it contained a beautiful color photo of the plane. Author Robert Dorr ([photo below](#)) states in the caption that the aircraft that beat the F-106's record was the Mikoyan Ye-152, often mislabeled (on purpose it turns out by the Soviets) as the E-166. Mystery solved! It helps the remember that this era was the "hottest" period of the Cold War- Sputnik, Berlin Wall, Cuban Missile Crisis, etc. Soviet disinformation was at its highest peak in their efforts to sow confusion in the West about it's weapon's technology.



## Fiddly Bits (continued)

What added to the initial confusion is that the Soviets referred to their prototypes as "yedinitsa", roughly translated as "one-off"/"single unit" and shortened to "Ye". This gets further abbreviated to a single "E", as in E-66 for the prototype Mig-21. In the West we usually refer to a prototype with the prefix "X". I still must be confused because I mistakenly wrote on my "need for speed" chart "Ye-151A" instead of "Ye-152-1" Sneaky commies!

So finally armed with this new and correct information I was able to secure a **MODELSVIT** kit of the plane from Roll Models (Ye-152 in the catalogue, E-152A on the box art; Ukrainians are just like their big brother comrades). Turns out *unlucky* me. The kit makes Mach 2 look like Tamiya! The model was of the twin engine version, emblematic of a recurring theme in my modeling career: "If you can't love the one you want, honey, love the one you're with"- (Stephen Stills).



And now from the other category of my modeling efforts: "Deja Vu all over again." I discovered quite by accident- actually during a brief lull at our May meeting- WINGS OF FAME vol 11 has an extensive article on the Ye-152 and all its variants. Like the solution to the correct markings for the F-100C solved by a Hubbell print that I had forgotten about, the answer to my "E-166" confusion was sitting quietly in my archive all the time waiting to be discovered!#&%! What a myopic numbskull I've apparently proved to be once again!

To add insult to injury, now that I'm equipped with a computer I looked on the Scalemates website and low and behold there IS a MODELSVIT kit of the single engine record setting **Ye-152-1**. But I think I'll let someone else have 'loads of fun' with my example. For me one MODELSVIT kit is one too many! **Stay tuned....**



# Hollywood Heroes



*By Frank Ahern*

*This continuing feature is designed to showcase the often-unpublicized military service of many of the entertainment icons of the previous generation who served their country without complaint or protest.*



## Neville Brand

He enlisted in the Army in 1941. One of the most decorated veterans of WW2, Neville Brand participated in the Ardennes, Rhineland, and Central European campaigns, and received the Silver Star for gallantry in combat while convalescing at the 21st General Hospital. His other awards and decorations are the Purple Heart, the Good Conduct Medal, the American Defense Service Ribbon, the European/African/Middle Eastern Theater Ribbon with three Battle Stars, one Overseas Service Bar, one Service Stripe, and the Combat Infantryman's Badge.



## Neville Brand



Like many Hollywood Heroes, after the war Brand studied acting on the G.I. Bill. His first role was in the film-noir classic D.O.A. (see photos on the right). A highly respected character actor, his tough-guy looks led to many villain roles in both movies and TV. In real life, he was a voracious reader who amassed a huge personal library. Perhaps he is best known for his continuing role as gangster Al Capone in the TV series *The Untouchables*. He died in 1992.



# T55 fuel tanks

By Ed Ingersoll and Bill Winter



Small details can really add “pizazz” to a model. One area to consider is the external fuel tanks on T54/T-55 tanks. Legends has a beautiful resin, brass and photoetch set (see photos).



Photos of the real “thing” are below.



<http://armorama.com/photos/feature/3005/s2300090.jpg>



[http://armorama.com/photos/feature/3005/1\\_3\\_.jpg](http://armorama.com/photos/feature/3005/1_3_.jpg)

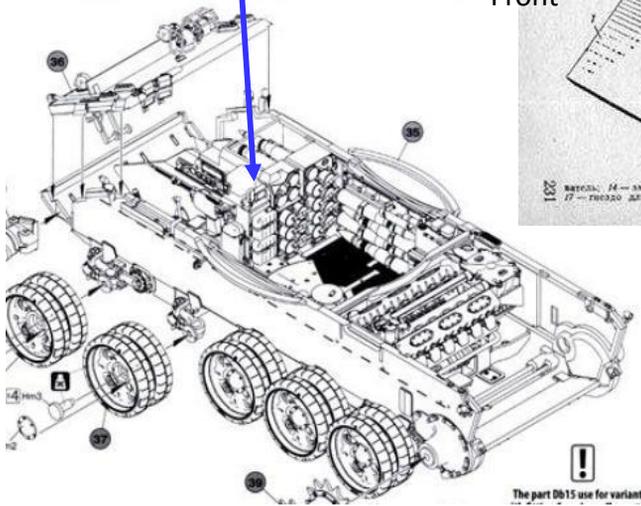
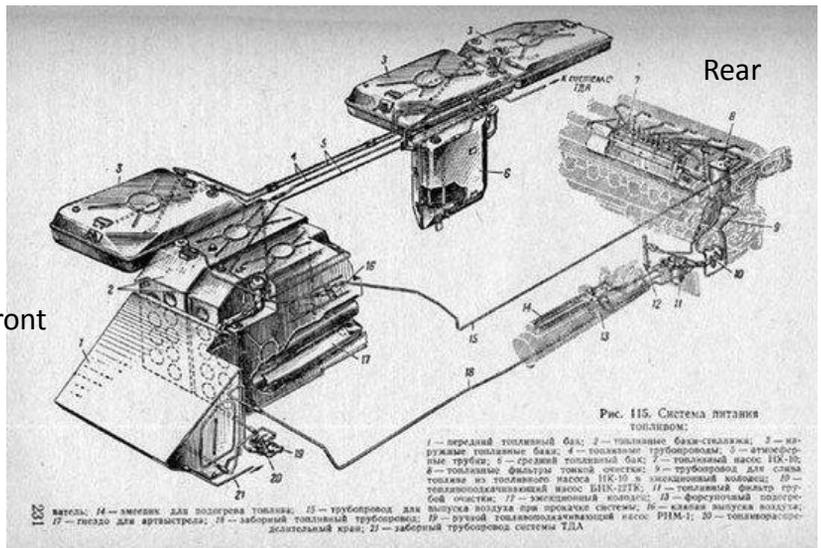


<http://armorama.com/photos/feature/3005/s2300089.jpg>



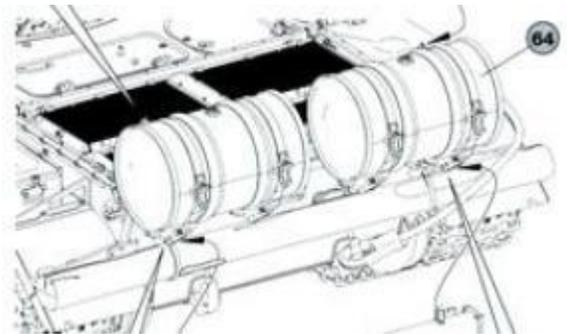
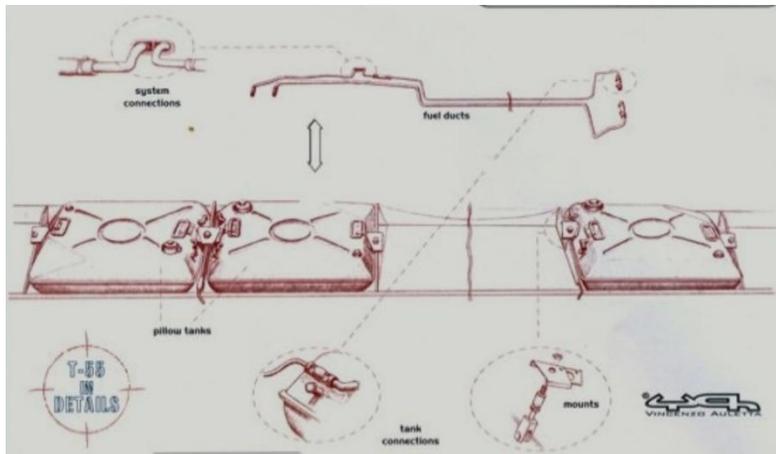
<http://armorama.com/photos/feature/3005/s2300073.jpg>

To the right is a diagram from a Russian site. The structure in the front of the interior cabin holds ammunition. Below is a diagram from a Miniart T55 illustrating this.



<https://ulozto.sk/IL577dLm6N/tank-t-55-nadrze-palivovy-system-fuel-tank-system-jpg>

These diagrams suggest that the fuel tanks are all external. Shown on the right below is that T55s can carry fuel drums on the back. Below (left) is another diagram that we found on the web.



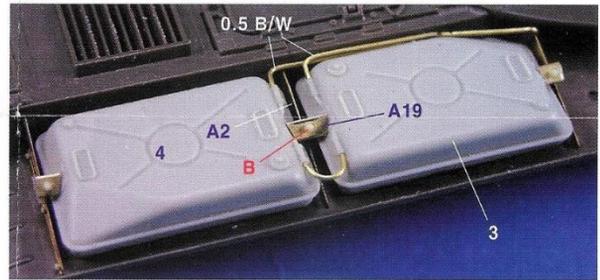
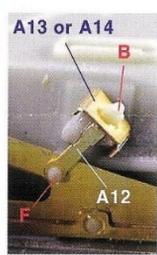
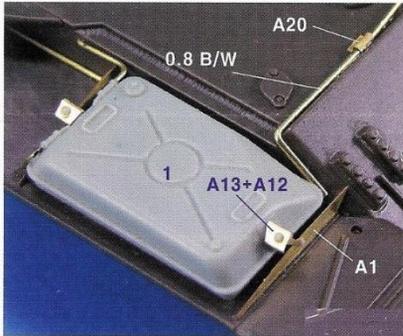
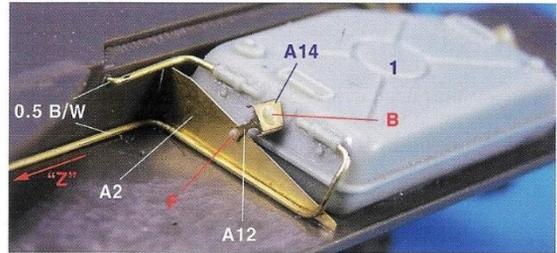
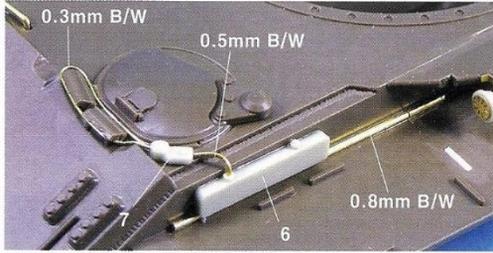
[http://armorama.kitmaker.net/modules.php?op=modload&name=SquawkBox&file=index&req=viewtopic&topic\\_id=204668&ord=&page=7](http://armorama.kitmaker.net/modules.php?op=modload&name=SquawkBox&file=index&req=viewtopic&topic_id=204668&ord=&page=7)



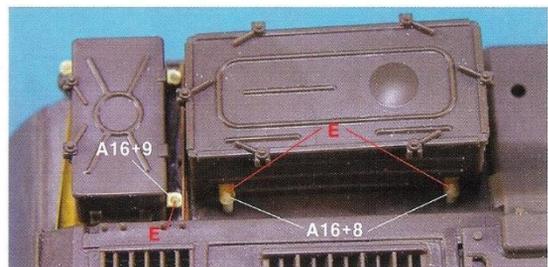
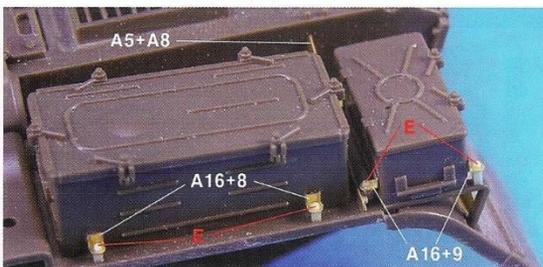
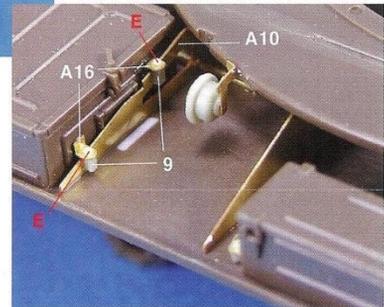
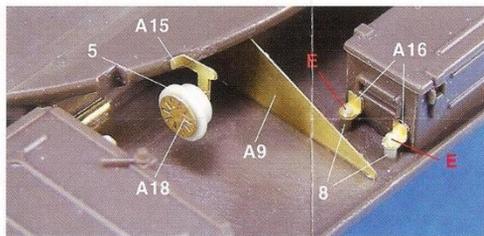
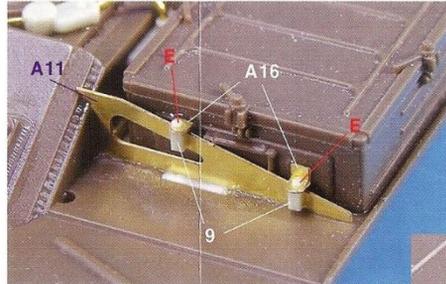
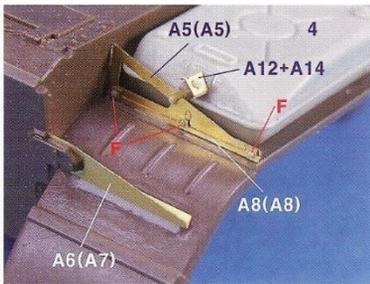
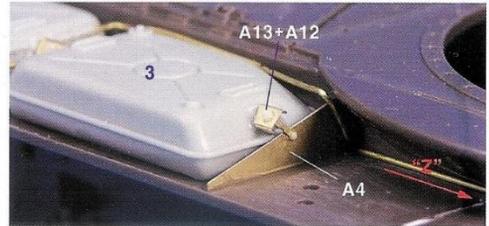
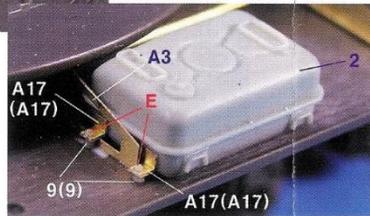
Below are the kit instructions.

## \*. T-55 Fender Fuel Tank set

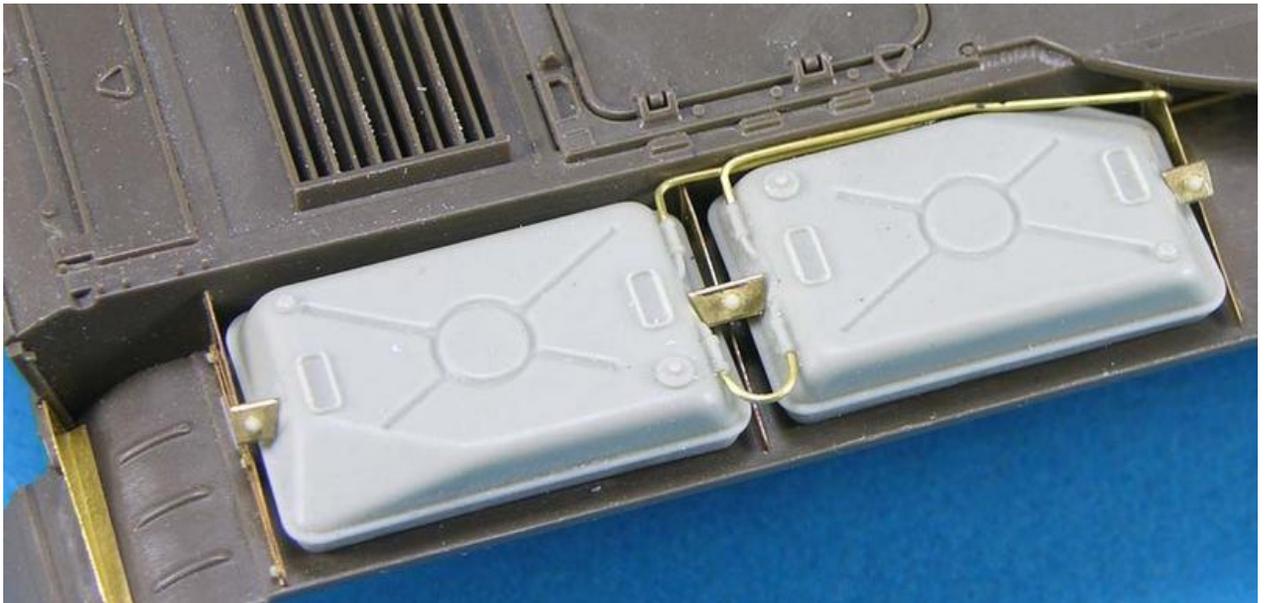
( ) : opposite side



\*. B, E, F : Bolts



Here are some **detail photos** from the web (see: [https://www.super-hobby.com/products/T-55-Fender-Fuel-Tank-set.html#gallery\\_start](https://www.super-hobby.com/products/T-55-Fender-Fuel-Tank-set.html#gallery_start))



Below is Ed's work on his T-55, IDF Tiran 5 (Tamiya).



**THE END!**

# Bill's Column: The Russian T-90S



By Bill Winter

Do you ever wonder how different 2 kits really are? I picked up the Trumpeter T-90S at the Columbia, South Carolina IPMS/AMPS show on June 23, 2018. In wanting to know what the kit price listed for, I went to the Squadron site and learned that there are 2 (two, not “to” or “too”) T-90S kits: “Trumpeter 1/35 Russian T-90S Modernized (Mod 2013) - TR09524” and “Trumpeter 1/35 Russian T-90S Modernized - TR05549” (which is the kit that I purchased).



So. . . How much difference is there between these kits? Below are the descriptions of the kits from Squadron. I have used color to try to identify the similar features of note. I suppose that the “modernized” T-90S is newer than the “Mod 2013” T-90S.

## “Trumpeter 1/35 Russian T-90S Modernized (Mod 2013) - TR09524”

The T-90 is a Russian third-generation main battle tank that is essentially a modernization of the T-72B, incorporating many features of the T-80U (it was originally to be called the T-72BU, later renamed to T-90). The T-90S have been identified as export model.

Kit features engraved exterior surfaces, 1-piece lower hull, separate upper turret with exterior detail and hinged hatches, 12.7mm Kord Heavy machine gun, detailed running gear (Individual track links, road wheels and sprockets), Steel-composite-reactive blend, 2-piece gun barrel with optional manlets for elevation, cylindrical fuel tanks, vinyl tubing, wooden log, side skirts, smoke grenade dischargers, molded on storage boxes, braided wire tow cable, storage cylinder, exterior filigree accents, clear parts for (lights, periscope and optical equipment) and ample photoetch parts. [5-view color painting guide for a single tank.](#)

## “Trumpeter 1/35 Russian T-90S Modernized - TR05549”

Plastic model kit of the T-90 is a third-generation Russian battle tank that entered service in 1993. Originally called the T-72BU, but later renamed to T-90, it is an advanced tank in service with Russian Ground Forces and the Naval Infantry.

Kit has single piece lower hull, multi-part upper hull with exterior detail, turret with exterior detail and separate additional armor array, Relikt ERA, hinged hatches, detailed fenders with engraved storage boxes, side skirts with bolt and latch detail, headlight guards, 1A4GT fire control system, separate entrenching device, 2-piece smoothbore gun barrel with detailed breech and gun assemblies, choice of (2) manlet's, 7.62 mm PKT coax machine gun and 12.7 mm NSVT anti-aircraft machine gun, cylindrical fuel drums, brass wire tow cable, vinyl tubing, ditching log, smoke grenade dischargers, injection molded rear mesh armor, detailed running gear with (sprockets, road wheels, idler wheels and individual track links), transparent accents (vision ports, optical equipment and lights), photoetch (brackets, latches, grilles, panoramic sight, turret and other exterior accents).

[5-view color painting reference for a single tank in camouflage scheme.](#)

## Bill's Column (continued)

One might expect some difference between the kits as “Trumpeter 1/35 Russian T-90S Modernized (Mod 2013) - TR09524” lists for \$80.99 and “Trumpeter 1/35 Russian T-90S Modernized - TR05549” lists for \$91.99 [are you kidding me . . . . 91% of a C note (\$100)! – no I only paid a fraction of this . . . only at shows might you find a true 70% discount on a “hot” new release].

However, the story of Trumpeter T-90S's not yet over as (to be complete) there are other T-90S kits that you should be aware of (if you are interested in the topic). If you are not interested, go on to the next article). There is an Indian T-90S (TR05561 – list price: \$72.99 – cheaper still) that is described as: “. . . .a Russian third-generation main battle tank that is essentially a modernization of the T-72B, incorporating many features of the T-80U (it was originally to be called the T-72BU, later renamed to T-90). The T-90S have been identified as export model. Kit features engraved exterior surfaces, 1-piece lower hull, separate upper turret with exterior detail and hinged hatches, 12.7mm Kord Heavy machine gun, detailed running gear (Individual track links, road wheels and sprockets), Steel-composite-reactive blend, 2-piece gun barrel with optional manlets for elevation, cylindrical fuel tanks, vinyl tubing, wooden log, side skirts, smoke grenade dischargers, molded on storage boxes, braided wire tow cable, storage cylinder, exterior filigree accents, clear parts for (lights, periscope and optical equipment) and ample photoetch parts. 5-view color painting guide for a single tank.”



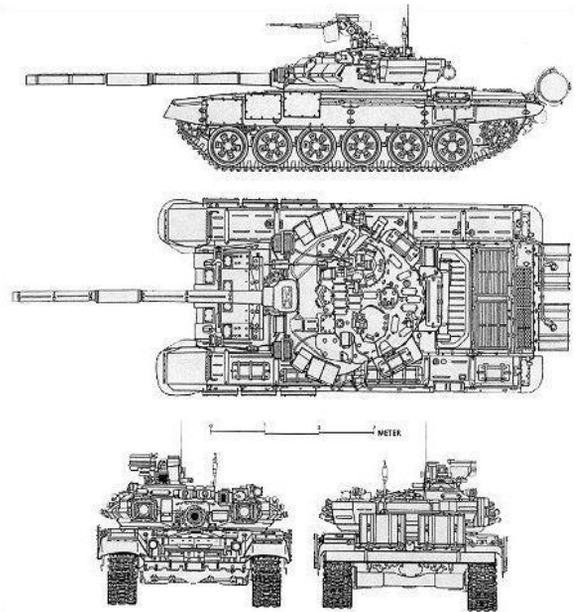
There is also a Trumpeter 1/35 Russian T-90SA MBT (TR05563) that is described as: “. . . . The T-90 with an 840 hp (630 kW) engine went into low-level production in 1993, based on a prototype designated T-88. It features a new generation of Kontakt-5 explosive reactive armor on its hull and turret. Kit consists of over 1300 parts, multi-slide molded turret and lower hull, 184 individual tracks links, copper cable. Markings for 1 vehicle.”



"If truth be told" (no fake news here or "alternative facts" -- ☹ ) neither the Indian T-90S or the Russian T-90SA MBT look like the other "T-90S" tanks.

The "army recognition website"

[[http://www.armyrecognition.com/russia\\_russian\\_army\\_tank\\_heavy\\_armoured\\_vehicles\\_u/t-90s\\_main\\_battle\\_tank\\_mbt\\_technical\\_data\\_russia\\_pictures\\_video.html](http://www.armyrecognition.com/russia_russian_army_tank_heavy_armoured_vehicles_u/t-90s_main_battle_tank_mbt_technical_data_russia_pictures_video.html)] writes: "*The T-90S is an enhanced version of the Russian-made T-90 Main Battle Tank (MBT) to meet the operational requirements of countries in Asia. The T-90S is used by India. The T-90S is the latest development in the T-series of Russian tanks and represents an increase in firepower, mobility and protection. It is manufactured by the Russian Company Uralvagonzavod based in Nizhnyi Tagil. The T-90S is in service with the Russian and the Indian Army under the name of Bhisma. In February 2001, the Indian Army signed a contract for 310 T-90S main battle tank tanks. It's also the export version of the standard main battle tank T-90. In July 2017, Russian tank manufacturer UralVagonZavod announced in its annual report that it had secured an order from Vietnam for T-90S main battle tanks. Also in July 2017, it was announced that Iraq has purchased 73 main battle tanks (MBTs) (from the) Russian Company Uralvagonzavod including T-90S MBTs and T-90SK command post for tank battalion unit.*" (The T-90S photo And drawing below are from the "army recognition" website.



The "military today" website [<http://www.military-today.com/tanks/t90.htm>] writes the following about T-90s: "*The T-90 Main Battle Tank (MBT) is a further development of the T-72. It was adopted by the Russian Army in 1993 and its low-rate production commenced in 1994. Currently Russian Army operates around 750 – 1,000 of these MBTs of all variants. It is the most modern tank currently in service with the Russian Army, which has a requirement for around 1,500 of these tanks. Also currently it is the only mass-produced MBT in Russia. The T-90 is considered to be among the 10 best main battle tanks in the world. Currently it is the most commercially successful main battle tank on the global market. Export operators are Algeria (305), Azerbaijan (114), Turkmenistan (40) and Venezuela (50~100). The largest export operator is India which obtained 620 tanks in knock-down kits for local assembly and plans to produce 1 000 tanks locally. Iraq recently ordered 73 of these Russian main battle tanks. Deliveries commenced in 2018. Vietnam ordered another 64 units.*"

## Bill's Column (continued)

*"The T-90 saw action during the military conflicts in Ukraine and Syria. The T-90 MBT uses a well proven chassis of the T-72 and turret with all weapon systems of the T-80U.*

*It has a welded composite armor hull with a built-in Kontakt-5 explosive reactive armor blocks. Its protection is enhanced by Shtora-1 countermeasures system, which significantly reduces the chance of being hit by enemy anti-tank guided missiles with semi-automatic guidance. Early production tanks had a cast turret.*

*The T-90 main battle tank is armed with a fully-stabilized 2A46M 125 mm smoothbore gun. This gun is also used to launch 9M119M Refleks (NATO designation AT-11 Sniper-B) anti-tank guided missiles, in the same manner, as ordinary munitions. These missile has a range of 4-5 km and can also engage low-flying helicopters. Main gun of the T-90 is completed with a carousel-type autoloader. A total of 22 rounds are carried in the autoloader and are ready to fire. However remaining ammunition is stored in the main compartment, rather than a separate compartment with a blow-out panels. This drawback was common to all Cold War era Soviet main battle tanks. Once the armor is penetrated it can trigger detonation of onboard ammunition. Effective range of fire with APFSDS round is 2 000-3 000 m day and 2 000-2 600 m at night. Armor penetration is around 590-630 mm at 2 000 m range.*

*Secondary armament consists of a coaxial 7.62 mm machine gun and a roof mounted remotely-controlled 12.7 mm machine gun, used against both ground and air targets.*

*Fire control system of the T-90 was adequate for the 1990s. However currently it can not match similar systems of modern main battle tanks. The T-90 lacks advanced sights with thermal vision, as well as panoramic commander's sight, which would allow to detect and engage targets faster. This tank is operated by a crew of three, including commander, gunner and driver.*

*Initially production T-90 tanks were powered by a V-84MS multi-fuel diesel engine, developing 840 horsepower. However soon after the introduction, production switched to improved versions, powered by a V-92S2 engine, developing 1000 hp. This Russian MBT is also completed with an auxiliary power unit, which powers all systems, when the main engine is turned off. It is worth mentioning that the original T-90 has a lower power-to-weight ration than most current MBTs, hence its vague mobility performance. Vehicle is fitted with a deep wading kit, that can be installed by tank's crew within 20 minutes. The T-90 is also fitted with a self-entrenching blade. This main battle tank has undergone continuous upgrades since it was first developed in the early 1990s."*



The photo on the left is from the Pakistan Defence website  
[<https://defence.pk/pdf/threads/iraq-buys-large-batch-of-t-90-tanks-kremlin-aid.507735/>].

## **Bill's Column** (continued)

“Military today” lists the following T-90 variants:

**T-90K** *command tank.*

**T-90S** *export variant (sometimes referred as the T-90E), powered by a V-92 diesel engine, developing 1000 horsepower.*

**T-90SK** *command variant of the export version.*

**T-90 Bhisma or Bheeshma.** *It is a license-built variant in service with the Indian army. It lacks Shtora countermeasures system, but retains the 9K119M Refleks ATGM capability. It is also powered by the 1000 hp diesel engine.*

**T-90A improved Russian Army variant,** *fitted with a diesel engine, developing 1 000 hp. It also has some minor improvements comparing with original model. Russian Army operates over 400 of these MBTs.*

**T-90MS Tagil** *a recent version with some improvements, such as new turret, new composite armor, new Relikt explosive reactive armor, new V-92S2F engine developing 1 130 hp, new gun, updated observation and aiming systems.*

**T-90M and T-90AM** *are proposed upgrades for the older Russian Army T-90 tanks. It has some components of the T-90MS Tagil, such as Relikt add-on explosive reactive armor, new observation and aiming systems, added remotely controlled weapon station and some other improvements. Also it is armed with a new and more accurate 2A46M-4 gun and is powered by a 1 000 hp engine. This upgraded version was first publicly revealed in 2017. Deliveries of upgraded tanks to the Russian Army might begin in 2018.*

. . . . . And the following “non-combat tank models.:

**BREM-1M** *armored recovery vehicle. It has been developed to support the export T-90S main battle tanks.*

**MTU-90** *armored bridgelayer. It was designed to launch bridge across trenches and water obstacles in combat conditions.*

**IMR-3** *combat engineering vehicle.*

**BMR-3M** *mine clearing vehicle (of which MENG has a kit).*

Photos of BREM-1M, MTU-90 armored bridgelayer, the IMR-3 combat engineering vehicle and the BMR-3M are shown on the next page.



Least you become bored with Trumpeter T-90s, MENG does make several T-90s as does Zvezda.

'nough for now. Bye - Bill



# Show and Tell from June.



1/48 ME-109G  
Metal Gunbarrels



1/48 Revell F-86 Super Sabre



1/700 Waterline Series  
Asaghyo Class Destroyer



1/72 Revell M 60A3



1/35 Panther D



1/35 Tiger I



1/32 Monogram M3 Lee



1/35 Italian WW@ M13/40

# Show and Tell.



1/35 Tamiya T-34/76



1/35 Tamiya Chi-Ha (Japanese)



1/35 IDF Achzarit



1/35 USMC LAV-R



1/48 Edward MH-53 Sea Dragon



1/72 F-16



1/72 Fujimi Aichi D3A "Val Dive Bomber"



1/72 Frog P-51A  
With China Burma India Pigtail

# Show and Tell.



1/72 Y152A  
Soviet FAL Record



1/32 Wingnut Wings  
Hansa-Brandenburg W.29



1/35 T-34 & Tiger I



1/25 Reville Challenger  
Salt Lake Streamliner



1/70 Ertle Mayflower  
Masts and Yard Converted to Wood



1/72 Monogram Albatross HU-168



1/48 Monogram F-18 Hornet  
Low Visibility



"2" Submarine Seaview  
Voyage to the Bottom of the Sea

# Show and Tell.



Model Table 1



Model Table 2



Model Table 3



Model Table 4



1/72 Revell Roman Warship  
Sails and Shields Made by Hand



1/200 Viking Warship  
Sails and Shields Made by Hand

## Show and Tell.



1/24 Wave The Slug II



Techmod T 70



1/35 Tamiya M 41 Walker Bulldog

## Odds and Ends



- A Douglas TBD-1 Devastator rests on the deck of the sunken USS Lexington (CV-2).

# Faces in the Crowd

## Members at the Last meeting



Bill Winter



Ed Ingersoll



Jack Mugan



Frank Ahern



Bob Lundeen  
Birthday Again?



Bruce Doyle



Aaron Alt



Chuck Lassiter



Ethan Alt



Mike Martinez



Don Billups



Doug Spinney



AJ Kwan



Tracy Palmer



Brian Cormack



Tony Ivone

## Odds and Ends Contributed by Club Members & Friends

### From Jack Muga - > **Who invented Zinc chromate?**

Zinc chromate was developed by the Ford Motor Company in the late 1920s as a primer coating. Around 1936, zinc chromate was used by the aviation industry and the U.S. military. As zinc chromate is sensitive to light, it is mixed with black pigment to offer some UV protection. The outcome is a green color. The primer was colored to show a second coat, between 1930s and 1940s. Zinc chromate was classically found as the "paint" in the wheelwells of retractable landing gear on U.S. military aircraft, between 1940 and 1950s, to shield the aluminum from corrosion.

### For weathering see:

<https://www.facebook.com/photo.php?fbid=10156350875576704&set=pcb.10156064003694821&type=3&theater>

### From Paul Bennet:

NASA used to have a photo archive, Great Images in NASA. They have now moved it to: <https://www.flickr.com/photos/nasacommons>.

### From Bruce Doyle:

FANTASTIC!!!!!! Could you put the link (see below) in the newsletter as a 'Bruce Likes' either in my column or at the end with the odds & ends? Its the best 29+ minutes of video that I've seen in years and want the fellas to see it too. Then there's an hour plus video on the rockets....I may not have time to build another model! [https://www.youtube.com/watch?v=BnUHe29n\\_Mc](https://www.youtube.com/watch?v=BnUHe29n_Mc)

**Did you know** . . . that approximately 80,000 T-34's were made by the USSR during WWII? 44,900 were lost in combat (source: <https://en.wikipedia.org/wiki/T-34>).

**In a future issue**, I'll share by non-secrets about painting a later Panther G in factory red oxide primer. - Bill



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**If you have a modeling tip you would like to share with your fellow modelers, please send us a copy so we can put it in the newsletter.**

**We need articles for the Newsletter and the Web Site!**

If you just opened up that new kit and want to give a box or build review, write it up and we'll put it in the newsletter and put it on the Web Site. Just read a good book, tell us about it! Got a great tip, share it with your fellow club members. This is your Newsletter and your Web Site and they're only going to be as good as YOU make them so contribute something to the cause. Don't be afraid to ask for assistance if you have something you want to share, we'll be happy to assist you in making it happen!

Don't forget to support your local hobby shop.

**Rob's Hobby World**  
Rob Stevely: Proprietor 8585 SW Hwy 200 unit 14  
Ocala, FL 34474 [www.robshobbyworld@MSN.com](http://www.robshobbyworld@MSN.com) Mon.-Fri.: 10 AM to 5:30PM  
Sat.: 9AM to 4PM  
Sun: Close

Please check out [WWW.IPMSUSA.ORG](http://WWW.IPMSUSA.ORG) for the latest information from IPMS National Headquarters and for information about joining IPMS.

Please use one of the links below or go to the IPMS Membership page for more information about joining IPMS USA.

[http://www.ipmsusa3.org/uploads/ipms\\_application\\_form\\_2016.pdf](http://www.ipmsusa3.org/uploads/ipms_application_form_2016.pdf)

<http://www.shopipmsusa.org/product-p/adult-membership.htm>

<http://www.shopipmsusa.org/product-p/family-membership.htm>

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# IPMS/USA Region 11/Gator Modelers' Calendar

2018

August 1-4 IPMS/USA National Convention 2018, Phoenix, Arizona

Sept.14-16 IPMS Modelpalooza, Orlando

2019

Feb. 9 IPMS JAXCON, Jacksonville FL

April 27 IPMS Pelicon. Largo FL

May 9-11, AMPS Intl. Convention, Buffalo NY

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## How to submit articles to the newsletter By Bill Winter

Please submit your article via email (ala – Bruce Doyle) or via a Word file (the preferred format). Do not insert images/photos directly into the text. Label or number each photo (either in the photo itself, in your email or in the name of the file with the photo/image). In the text of your article, in parentheses, note the placement of the photo in **red**. The deadline for submission is the Monday of the week before the IPMS Gators meeting.

| <b>Deadline</b><br><b>(Monday)</b> | <b>Meeting date</b><br><b>(Tuesday)</b> |
|------------------------------------|---|
| July 9                             | July 17                                 |
| Aug 13                             | Aug 21                                  |
| Sept 10                            | Sept 18                                 |
| Oct 8                              | Oct 16                                  |
| Nov 12                             | Nov 20                                  |
| Dec 10                             | Dec 18                                  |

This next paragraph is from a recent submission from Paul Bennett outlining a great way to tell me where to insert the photos: *I cut four braces from old modeler's plywood scraps. (Insert **backparts01.jpg**) I cut two 24" lengths for uprights and a 26" length for the crossbar. I also dug out a 5/16" length of dowel rod for the joining pins. I cut a piece of six foot 1/2" dowel rod into two 32" pieces for supporting the photo cloth. For transporting the cloth and 1/2" dowel I purchased an art storage tube. Here are the collected parts prior to assembly. (Insert **backparts02.jpg**)*

Contact me if you have any questions about your submission. Thank you. - Bill

# IPMS Membership

is of great importance, both at the local level (IPMS Gators) and at national level. The Club officers strongly recommend joining IPMS as an individual which provides yearly six issues of the IPMS Journal (which is better than ever) and the opportunity to participate at the IPMS National Convention .

A copy of the membership application is on the right or available at the IPMS / USA website address, [www.ipmsusa.org](http://www.ipmsusa.org). Complete the form and return it to the address listed at the bottom of the form along with your method of payment.



## International Plastic Modelers' Society/USA Membership Application / Renewal Form

New  Renewal  IPMS #:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_

Zip Code: \_\_\_\_\_

Phone: \_\_\_\_\_ E-Mail: \_\_\_\_\_

Chapter Affiliation, if any: \_\_\_\_\_

**Junior** (17 years or younger) \$17.00 \_\_\_\_\_ Date of Birth: \_\_\_\_\_

**Adult** One year \$30.00 \_\_\_\_\_

Two years \$58.00 \_\_\_\_\_

Three years \$86.00 \_\_\_\_\_

**Canada & Mexico** \$35.00 \_\_\_\_\_

**Foreign** Surface \$38.00 \_\_\_\_\_

**Family** (1 set of Journals) \_\_\_\_\_ ← Adult fee + \$5.00 # of cards? \_\_\_\_\_

Your Signature: \_\_\_\_\_

If recommended by an IPMS member, please provide his/her:

Name: \_\_\_\_\_ IPMS #: \_\_\_\_\_

### PAYMENT OPTIONS:

Cash  Amount: \_\_\_\_\_

Check  Check #: \_\_\_\_\_ Amount: \_\_\_\_\_

Billing Address, if different than above -

Address: \_\_\_\_\_

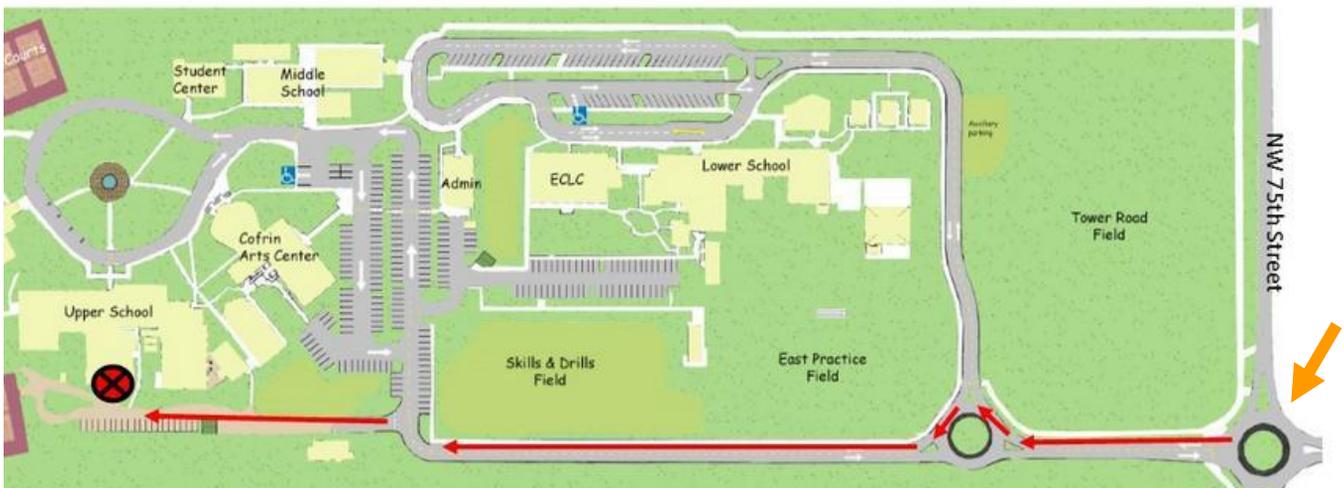
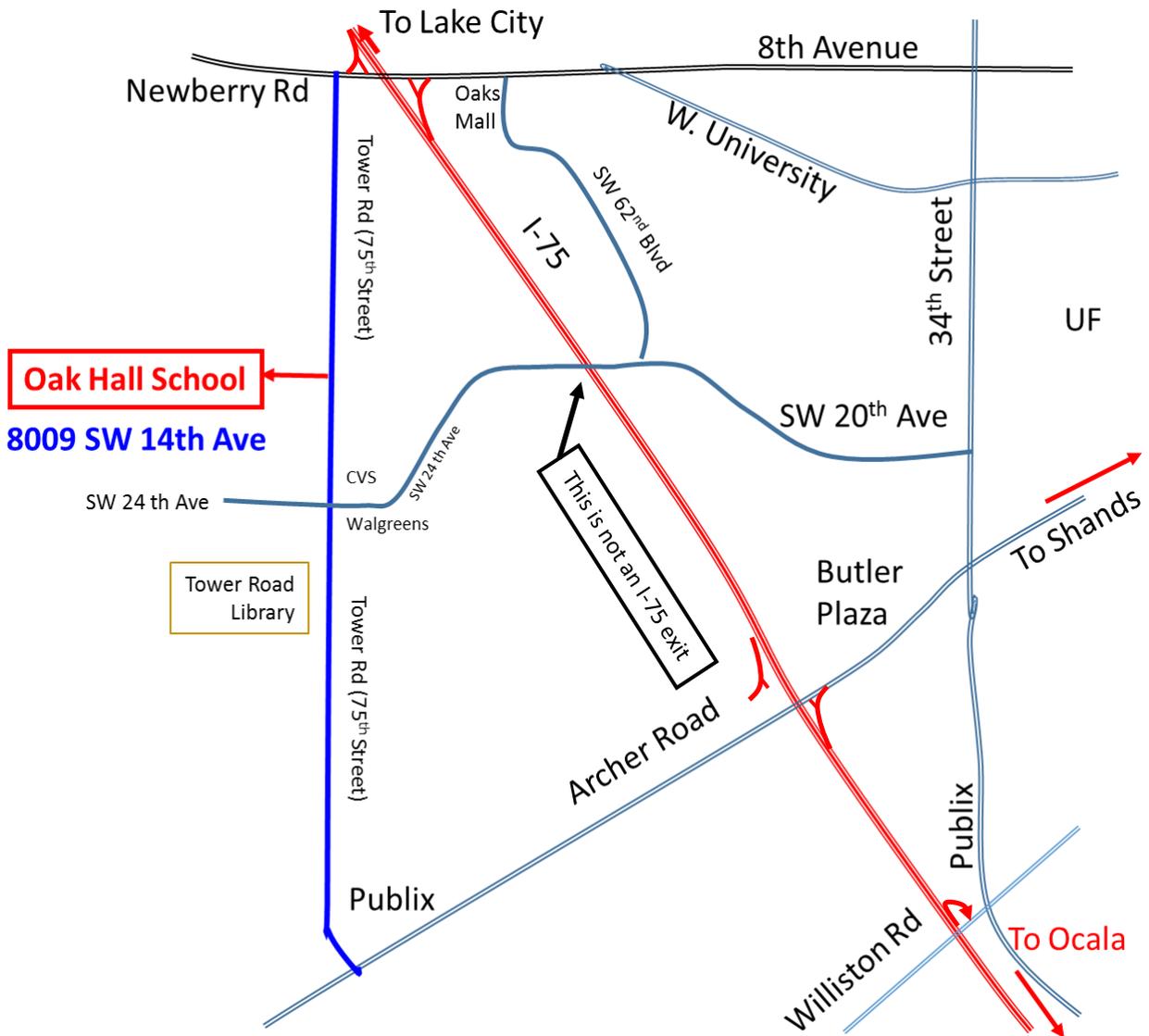
City: \_\_\_\_\_ State: \_\_\_\_\_

Zip Code: \_\_\_\_\_

Applications should be printed and mailed to: IPMS/USA, PO Box 56023, St. Petersburg, FL 33732-6023.

For folks renewing on-line: <http://www.shopipmsusa.org/category-s/100.htm><sub>42</sub>

# How to get to the meeting . . . .



Note: There is a new entrance to Oak Hall School south of the previous entrance that we used. This entrance is off of a roundel on NW 75<sup>th</sup> Street (a.k.a. – Tower Road).



[www.gatormodelers.org](http://www.gatormodelers.org)

## Wild Paint

E



**NEXT MEETING: TUESDAY, JULY 17, 2018!**