

WWB 23 - ROCK THE NIGHT!

	Wed	Thur	Fri	Sat	Sun
Registration - SARA	2pm - 5pm	9am - noon, 1 - 9pm	9am - noon, 1 - 7pm	9am - noon, 1 - 5pm	as needed
Trade Show - SARA		Noon - 4 pm	Noon - 4 pm	Noon - 4 pm	Noon - 4 pm
Safety Orientation Meeting - SARA		4:00 pm, and again at 7:30 pm (if necessary)			
Class B Safety Certification - SARA		4:30 PM			
Class C Vending - SARA		5 pm-10:00 pm	5 pm-10:00 pm	5 pm-10:00 pm	5 pm-9:30 pm
Open Shooting *		5 pm-10:30 pm	5 pm-10:30 pm	5 pm-10:30 pm	5 pm-10 pm
Afterglow - Quality Inn		10 pm - Whenever			
All seminars will be held at SARA Park					
<p>* Open shooting for Class C & B will close during displays. Open shooting will resume for Class C & B (separately) at the discretion of the Safety Chair</p>					

<u>Thursday</u>					
<u>Topic/Activity</u>		<u>Time</u>	<u>Duration</u>	<u>Presented by</u>	<u>Site</u>
SITE SETUP		9:00 AM till Done		Any and ALL Volunteers!!!	SARA
Winterblast Registration		9am - noon, 1 - 9pm		WB Staff	SARA
Trade Show		Noon - 4 PM		Vendors	SARA
B-Mag Open		10 AM - 4 PM		Security	Container
1A	PGI Shooters Certification Course*	12:45 PM	4.5 hours	Steve & Micki McDanal, Debra Ludwig	Tent 1
2A	Cut Stars *	1:00 PM	1.5 hours	Steve Wilson	Tent 2
3A	Practical Application of Food-Grade Smoke	2:00 PM	1.5 hours	Griz Smith	Hospitality
4A	Pressed Stars 38% faster without Dieting or Exercise!	2:30 PM	1.5 hours	Blue Parish	Tent 2

B-Mag Closed	3:00 PM		Security	Container
Safety Orientation Meeting	4:00 PM	~30 min	WB Staff	Bleachers
Class B Shooting Certification *	4:30 PM	~45 min	Randy Baranek	Safety tent
Class C Vending	5 PM - 10:00 PM		Vendors	Class-C Tent
Open Shooting	5 PM - 10:30 PM		Safety	SARA
B-Mag Open	5:00 PM	10:00 PM	Security	Container
2nd Safety Orientation Meeting (if missed the 4:30 time)	7:30 PM	~30 Min	WB Staff	Hospitality Tent
Afterglow	10:00 PM	???	WPA and Sponsors	Quality Inn

* Must be at least 18 yrs old, unless OK'd by seminar presenter



<u>Friday</u>					
<u>Topic/Activity</u>		<u>Time</u>	<u>Duration</u>	<u>Presented by</u>	<u>Site</u>
Winterblast Registration		9am - noon, 1 - 7pm		WB Staff	SARA
Trade Show		Noon - 4 PM		Vendors	SARA
B-Mag Open		10 AM - 4 PM		Security	Container
1B	PGI Shooters Certification Course *	9:00 AM	3 hours	Steve & Micki McDanal, Debra Ludw	Tent 1
5	Building Bunny Blasto	10:00 AM	1.5 hours	Jackalopes	J-Line
6	Drivers for Wheels *	10:30 AM	1.5 hours	Kurt Medlin	Tent 2
3B	Practical Application of Food-Grade Smoke	10:00 AM	1.5 hours	Griz Smith	Hospitality
7	Walking Tour of Manufacturing *	11:30 AM	1 hour	Bill Ryan	Tent 0
8A	5" Component Cylinder Shell Part 1 *	12:30 PM	2 hours	Randy Montgomery	Tent 1
9	Round Shell Workshop* (\$5.00 fee)	1:00 PM	2 hours	Richard Haase	Tent 2
10	Thermal Lance Demo	2:00 PM	1 hour	Beckie & Dimitri Timohovich	Track Infield
11	Theatrical Product Overview	3:00 PM	1 hour	Beckie & Dimitri Timohovich	Track Infield
12	Making Go-Getters and Crossette Comets *	3:15 PM	1.5 hours	Mark Devon	Tent 2



13	Hand Fountains*	3:30 PM	1 hour	Steve Majdali	Tent 1
14	An Introduction to the Fire One System	3:30 PM	1 hour	Al Newman - Bay Fireworks	Tent 0
B-Mag Closed		3:00PM		Security	Container
Safety Orientation Meeting		4:00 PM	☐30 min	WB Staff	Bleachers
	Class B Shooting Certification *	4:30 PM	☐45 min	Randy Baranek	Safety tent
Class C Vending		5:00 PM - 10:00 PM		Vendors	C-Tent
Open Shooting		5:00 PM - 10:30 PM		Security	SARA
B-Mag Open		5:00 PM	10:00 PM		Container
2nd Safety Orientation Meeting (if missed the 4:30 time)		7:00PM		WB Staff	Hospitality Tent
Demo		8:00 PM		Bay Fireworks	Racetrack
Demo		8:20 PM		Jakes Fireworks	
Demo - Preview		8:40 PM		AM Pyro	
Afterglow		10:00 PM	—	WPA and Sponsors	† uality Inn

<u>Saturday</u>					
<u>Topic/Activity</u>		<u>Time</u>	<u>Duration</u>	<u>Presented by</u>	<u>Site</u>
Pancake Breakfast		8:00 AM	2 Hour	BSA of Lake Havasu	Behind Bleachers
Winterblast Registration		9am - noon, 1 - 5pm		WB Staff	SARA
Trade Show		Noon - 4 PM		Vendors	SARA
B-Mag Open		10 AM - 4 PM		Security	Container
15	Breakfast with Bob	9:00 AM	1.5 hours	Bob Winokur & Special Guests	Hospitality Tent
16	Hand Rolled Rocket Casings	10:00 AM	2 hours	Roy Feathers	Tent 0
17	Mines Workshop *	10:00 AM	2 hours	Mike Garrett & Todd Hall	Tent 2
18	Building Pinwheels with Class-C Fountains *	10:00 AM	2 hours	Jackalopes	J-Line
2B/4B	Priming Stars *	10:30 AM	1 hour	Steve Wilson	Tent 1
19	Pyrotography	Noon	1.5 hours	Tom Calderwood	Tent 1
20	Expedient 5" Comet Manufacture *	12:30 PM	1 hour	Jim Widmann	Tent 2
21	Fuel/Air Concussion Simulator	2:00 PM	1 hour	Tom DeWille	Tent 1

22	BP Rockets For Beginners* (\$3.00 fee)	2:00 PM	2.5 hours	Steve Majdali, John Steinberg and Co.	Tent 2
23	Chlorate or Perchlorate? That is the question!	3:30 PM	1.5 hours	Joel Baechle	Tent 1
B-Mag Closed		3:00 PM		Security	Container
Safety Orientation Meeting		4:00 PM	□30 min	WB Staff	Bleachers
	Class B Shooting Certification *	4:30 PM	□45 min	Randy Baranek	Safety tent
Class C Vending		5:00-7:30, after PD-10:00		Vendors	C-Tent
Open Shooting (Closed during Public Display)		5:00 PM - 10:30 PM		Safety	SARA
B-Mag Open		5:00 PM	10:00 PM	Security	Container
Public Display (Open shooting closed for duration of display)		8:00 PM			Racetrack
Firecracker Wall		8:15 PM		Nils	
Demonstration		8:30 PM		Premier Pyrotechnics	
Main Public Display		8:45 PM		AM Pyro	
2nd Safety Orientation Meeting (if missed the 4:30 time)		as necessary		WB Staff	Hospitality Tent
Afterglow		10:00 PM	—	WPA and Sponsors	† uality Inn
Winterblast Auction		10:00 PM	2 Hrs	Randy Baranek	Afterglow

* Must be at least 18 yrs old, unless OK'd by seminar presenter



<u>Sunday</u>					
<u>Topic/Activity</u>		<u>Time</u>	<u>Duration</u>	<u>Presented by</u>	<u>Site</u>
Winterblast Registration		as needed		WB Staff	SARA
Trade Show		Noon - 4 PM		Vendors	SARA
WPA General Business Meeting		10:00 AM	2 hours	WPA Officers & Members	Aquatics Center
B-Mag Open every hour, on the hour, for 15 minutes till 3 PM		12 PM - 3 PM		Security	Container
8B	5" Component Cylinder Shell (shell lifting) *	1:00 PM	1 hour	Randy Montgomery	Tent 1
24	Daylight Shell Workshop *	1:00 PM	2 hours	Tom DeWille, Steve Wilson	Tent 2
25	Electrical Firing Systems	1:30 PM	1 hour	Chuck Erikson and Lynden King	Hospitality
26	Exotic and Endangered Fireworks Making a U.S. Comeback *	2:00 PM	1 hour	Aaron Mayfield	Tent 2
27	The Realities of Realgar	3:00 PM	1 hour	Bob Winokur	Tent 1
B-Mag Closed		3:00 PM		Security	Container
Safety Orientation Meeting (if necessary)		4:00 PM	~30 min	WB Staff	Bleachers
	Class B Shooting Certification *	4:30 PM	~45 min	Randy Baranek	Safety tent

Class C Vending	5:00 PM - 9:30 PM	Vendors	SARA
Open Shooting	5:00 PM - 10:00 PM	Safety	SARA
B-Mag Open	5 PM - 9:30 PM	Security	Container
Members Showcase	8:00 PM	Blue Parish	Racetrack
Jackalopes	8:15 PM		
Demo	8:30 PM	AM Pyro	
Demo	8:45 AM	Jim Widmann	
Afterglow	10:00 PM	Till Dawn	Quality Inn
<u>Monday</u>			
Tear down and clean up at SARA	9 AM - When Done!	WPA Members & Families	SARA

If you are able, PLEASE stay for a few hours Monday morning and help us clean up! As always, each person will receive lunch and an equal share of the clean-up fee!

(A \$15 clean-up fee was added to all registrations. Each member that stays until the storage container is locked will receive an equal share of the total fees collected.)

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1A) PGI Display Fireworks Operator

Micki and Steve McDanal, Debra and Jim Ludwig

This course is an accepted safety course for licensing in many states. It is a must do course for anyone who wants to increase their knowledge of current NFPA regulations, requirements and safety protocols for commercial fireworks displays. The course includes classroom lectures, hands on field work and a written test. Everyone can learn something new from this class. There are 2 required sessions for those desiring to apply for PGI certification. Plan on being at Sara Park no later than 12:35 pm on Thur., so you can register for Winter Blast before coming to the class.

Space will be saved for those who pre-register for the class, and arrive at the class site with payment by 12:45 pm on Thursday. All other places will be filled with participants prepared with payment on a first come, first serve basis. The participant maximum is 40.

Cost of Class - \$45.00 in cash (correct change appreciated) or check made payable to WPA Cost includes 200+ page book, live demonstration, hands on firing and classroom lectures in power point format.

Minimum PPE is required at Thursday class: Safety glasses, hard hat, closed toe shoes, long sleeved shirt, long legged pants made of 100% cotton or other flame retardant material (leather, turn out gear over cotton). Also bring a water bottle, lunch/snacks if desired, paper (if you don't like to write in your books) and a pencil, pen and/or highlighter.

The written test will be on Friday. Registrants will receive their required WPA "B" firing line wrist bands and stickers at the conclusion of Thursday's practical session. Due to a tight time schedule, no information can be repeated for late students.

Micki McDanal is a PGI Certified Trainer. Steve McDanal teaches the hand fire portion of the course. Steve and Micki have worked with other instructors and/or taught the PGI course alone in Colorado, New Mexico, Arizona and Pennsylvania for over 12 years. They have over 35 years of experience in fireworks display and 12 years of experience in proximate display. Micki is licensed in Colorado for both Fireworks Display and Pyrotechnic Special Effects. Both are both on the Board of Directors for the Rocky Mountain Pyrotechnics Guild.

Debra Ludwig - WPA Treasurer 3 years. Deb has 18 years pyro experience and has held a California License for 8 years. Her husband Jim is her right hand

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guy and has 21 years of experience in fireworks. They will often have a young aspiring pyro enthusiast on their crew to mentor throughout his/her training seeing them thru to licensure and beyond. Now as a PGI Certified Trainer Deb and Jim are excited about teaching this class to others who aspire to get more training. Even someone with years of experience should take this class, you just might learn something new!

2A) Cut Stars

Steve Wilson

Cut stars are the simplest form of stars to make and can produce good quantities of stars in short order for the beginning pyrotechnician. In this seminar Steve will demonstrate a few nuances in making cut stars on both water and solvent based star compositions. Basic tools and some innovations will be shown too.

A follow-up seminar will be giving on Saturday showing how to prime these stars and the pressed stars by Blue Parish.

Steve Wilson got his start pyrotechnically in grammar school when he and his brother Bob used to mix and burn whatever they could get their hands on. This included toy caps, ammonium nitrate from the local citrus farmers, calcium hypochlorite tablets for the Doughboy pool, and sulfur from the Gilbert chemistry set. Needless to say, Steve and Bob's fireworks were a little bit boring back then, well, except for the time Steve attempted to grind the chlorine tablets together with the ammonium nitrate in a mortar and pestle. To this day, the rafters of the garage are still a bit bleached and Steve's eyebrows don't look like they were put on straight.

Later in life, Steve acquired a copy of Weingart, discovered American Fireworks News and the PGI. Shortly thereafter, some of the WPA roots belched out of his Commodore 128 and Steve's fireworks got a little bit better. He also became a CA licensed fireworks display operator which today easily accounts for about 1/2% of his annual income and 60% of his red tape.

By trade, Steve is a theatrical lighting designer, technician and equipment fabricator. Formally a roadie with some 70's bands like ZZ Top, Chicago and Styx, he now wears many techie hats in his local theater community.

3A A Practical Application of Food-Grade Smoke

Griz Smith

Sometimes topics within the WPA ranks veer of course from the pyrotechnic mainstream, sometimes

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all the way to the far north – a place where where food can be abundant at times, but with the desperate need to be saved for later sustenance, or in barter with flatlander pyro friends for untold favors. In this seminar, Griz will show us how to smoke fish once and for all. Starting from store bought fish, a brine will be made and applied. The next day fish put into a smoker on site, smoke form select wood chips applied and maintained, until a complete product immerges for consumption on the last day of the Blast. Occasional reference to MHL and MILF's may occur during these sessions.

Griz Smith is fireworks in Alaska. A resident of that vast state for 44 years, he has shot displays in Western Canada, all of Alaska from Adak to Barrow, from Ketchikan to Nome. He even got lost once and found himself shooting a show in Western Russia. In Alaska, Griz has shot fireworks displays in minus -56 below zero and on another occasion has shot a display with sustained winds of 88 mph. Griz runs two businesses: Fire Art By Griz Inc. and AK Explosive Manufacturing Company, whose motto is "If It can be made, we've made it, twice." Also President of the Alaska Pyrotechnics Guild Inc., WPA Area Past VP of Alaska, currently serves on the Alaska Governors Health and Safety Board and in 1997 was given the title of Lion of the Year by the Lions Club International

Griz has been in the fireworks business for 45+ years, a pilot for 59 years, commercial fisherman for 11 years and a brown bear guide for 19 years. Yup, that makes him 134 years old, though he doesn't hardly look a day over 60! Griz attributes his longevity to a strict diet of Miller High Life beer, Harley-Davidson motorcycles , brown-haired girls, and Red Salmon.

4A) Make Pressed Stars

38% faster than with Diet or Exercise Alone!
Blue Parish

Have you ever looked up at the night sky and wondered...what is the meaning of life? What's inside all of those stars? If you were closer to them, would you find that they are actually cylindrical instead of spherical? Did I leave my curling iron on back at the hotel? This seminar will explore the answers to all of these questions and more. Watch as Your Pal, Blue, demonstrates the use of star plates and star pumps to produce pressed stars and comets. You will see how to press decent stars quickly, and how to press even better stars with extreme tedium. We will also delve into married comets, matrix comets, and other variations on the pressed-star theme.

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Blue Parish was born and resided in an area previously known as the Denver Colorado Metropolitan Statistical Area prior to the Initial Outbreak. She survived alone for over two years in shipping containers and abandoned missile silos along the western edge of Quarantine Sector RM9 before locating other survivors. As one of the founding fourteen members of the Nitrile Hopscotch Mafia, she was instrumental in securing the first semi-permanent settlement offering protection against the Scourge and developed a successful method of decontamination using commonly available IFES (Items of Former Economic Significance). Following a fall-out with the Senior Apostle of the New United Territories concerning the Items Banned By Revelation Decree, Ms. Parish was forced to abandon all firearms and leave the N.U. Territories. Three days following her departure, the Second Outbreak had begun and the Territories were decimated within six weeks. After navigating the Unconsolidated Southwest Region for several months armed with only a slingshot, Ms. Parish arrived on the coast and was rescued by the Fringe Militia Friendship Network and subsequently served the Governing Offshore Colony with high honors until Terra-Recolonization. Unable to enter NeoCapital due to persistent residual 2-4-5 trioxin blood levels, Blue now resides at Justin Beiber Memorial Outpost 4K7, where she raises alpacas for fun and profit.

5) Building Bunny Blasto

The Jackalopes

This will be a seminar about Bunny Blasto with a workshop afterward to help the jackalopes prepare all of the needed pyro materials for BB's operation. Location: J-line. Length: no more then two hours. All materials provided.

About **Jackalope Brand Fireworks** - More conceptual then physical this pyro-mechanica power house is loosely lead by Kent Cates and Bill Brett with the stated goal of expanding the pyro possibilities offered in America. Drawing inspiration from Maltese, Tultepec and early Americana pyro traditions Jackalope Brand wants to remind folks pyro has a rich and varied vernacular. To these ends the members of Jackalope Brand draw on a wide array of artistic talents including, but not limited to, pyro art, machine art, painting, paper mache, blacksmithing, cardboard art, set construction and audio design. Bill and Kent's first pyro artistic efforts lead to the CEO of Burning Man buying a new tent. They have not looked back since!

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6) Drivers for Wheels

Kurt Medlin

This is a hands-on seminar in which participants will learn how wheel drivers are made and used. The lecture portion will include discussion of the types of spark effects used in drivers, the compositions commonly employed to achieve those effects, and some aesthetic thoughts involving driver positioning and use of common wheel garnishments like whistles and color pots.

The hands-on portion will allow participants to hand-ram an "8-ounce" sized driver which will be used on 4 stage pinwheels that will be part of the large Ferris wheel display being presented on Sunday night by the Jackalopes.

Kurt Medlin first began trying to make fireworks around age 10 (with the patient tolerance of his mother and the encouragement of his father!). An avid collector of fireworks books and publications, Kurt acquired copies of the classic texts Weingart, Davis, and Lancaster by his late teens, and a few years later (around age 22 – 1981) Kurt joined the Pyrotechnics Guild International (PGI), and the world of organized pyro.

He attended his first PGI convention in 1983 and gave his first seminar at the 1986 PGI convention. Kurt worked his first public fireworks display in 1984. His articles and book reviews have been published in the PGI Bulletin and Pyrotechnica. His review of Dr. Alexander Hardt's book Pyrotechnics, can be found on the web site of the International Pyrotechnic Seminar.

Kurt is a charter and life member of the WPA, a former WPA officer, and a former Chairman of several Winter Blasts (WB II, III, and XII). He is also a former officer of the PGI (Publications VP) as well as trustee of The Fireworks Foundation, a non-profit organization dedicated to the preservation of the fireworks hobby. Kurt has given seminars at previous Winter Blasts and Do-It's on black powder rockets, tourbillions, large bore candles, fountain and wheel construction, and Italian style shells. Kurt is also interested in fireworks history and collecting antiquarian fireworks literature.

7) Walking Tour of Manufacturing

Bill Ryan

Go behind the scenes in Manufacturing. You'll get a chance to see various pyrotechnic devices being built. You'll marvel at the ingenuity of your fellow club members as they show various solutions to safety and

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production issues. Given by the Manufacturing Chairman, Bill Ryan, you'll hear how you, too, can join the ranks of Manufacturing! Your questions are welcome throughout the walk. Must be at least 18 years old.

Bill Ryan first worked as a helper at a fireworks show in 1982, when he helped hang a very rickety 20'x20' gerb portrait of John Wayne from the Spartan Stadium scoreboard in San Jose, built a nail board, attached e-matches to hundreds of fused shells, and set up a large hand fired electric show using two rolls of two conductor telephone wire. The nail board electric show came off well, despite the fact that they were still checking continuity while the sponsor was announcing the start of the show. Nonetheless, Bill was hooked and worked as a helper until 1995, when he obtained his own license.

Bill then joined the WPA and, while working as a volunteer safety, got hooked on rockets. After all, anybody can lift a shell with FFa, but it takes an artist to successfully lift a shell with a rocket. He spent a couple of years as volunteer safety at B-Rockets with Gary Berg, who drafted him to take his place as staff safety at B-Rocks when he moved on to bigger and better things. Since the purists in the club feel that only the lunatic fringe make rockets, Bill quickly earned the title of "head lunatic."

Eventually Bill was asked to takeover as Manufacturing. He arrived at his first event as manufacturing chair only to find BATFE there with their orange book and directions for us to follow it. That visit forever changed the layout of manufacturing.

Feeling strongly that manufacturing is a vital and critical part of the club, Bill's role is to maintain a safe and enjoyable environment in manufacturing, and to safely increase participation in manufacturing as much as is possible within the space limitations we have.

8A) 5" Component Cylinder Shell

Randy Montgomery

Randy of AM Pyrotechnics will be presenting a course specializing in the complete assembly of an American designed component/insert cylinder shell with a color core. Mr. Montgomery will take the class through a detailed walk of making this type of special shell, beginning with a discussion of how inserts are pressed and manufactured. Randy will then begin the construction of the shell, showing the class how inserts are placed within this type of cylinder shell, how to construct a simple burst for the shell, placement of stars within, strapping, and concluding

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with the pasting and instructions on the lifting of this special shell.

8B) A follow up session is scheduled on Sunday to add lift to the shell and put on a leader. This shell will then be fired that night for the class viewing!

Mr. Randy Montgomery is the production line manager for AM Pyrotechnics, in Buffalo Missouri. Mr. Montgomery apprenticed and continues to work as a master apprentice under Grand Master shell builder, Bill Page. Over the years, Randy has assembled multiple types of cylinder shells, component/insert cylinder shells, Japanese style ball shells, mines, comets, Maltese style doughnut shells, and many other types of pyrotechnic devices. Randy works 52 weeks per year assembling these types of effects, and is one of the primary shell assembly personnel at AM Pyrotechnics, turning out hundreds of shells and thousands of comets per week.

9) Make a 4" Ball Shell

Richard Haase

\$5.00 Seminar Fee

A perennial favorite, this class gives you a chance to build the same sort of shell you see in your hometown fireworks display. You'll build a 4 inch shell and have a chance to load it and fire it that night. You'll learn to work safely, and you'll learn some of the secrets to shell building. If you like hands-on, you'll love this seminar! A \$5.00 materials fee will be charged per student.

Richard Haase been involved in the Pyro industry for 24 years and a licensed operator 20 years. He has been involved with putting on fireworks displays in both Europe and Asia. Richard is a member of both WPA and PGI and has been participating in the presentation of this seminar for the past seven years.

BACK BY POPULAR DEMAND!

10) Thermal Lance Cutting - 10,000 degrees of Raw Cutting Power

Dimitri and Beckie Timohovich

Using oxygen and steel to bore through rock, metal, almost any substance you can think of. Amaze your friends!!! Scare your neighbors!!! Scare the WPA officers and staff too!!!

Dimitri and Beckie Timohovich are special effects technicians who work in all areas of entertainment. They scour the world looking for new ways to improve their effects skills using new and old techniques. Dimitri has worked on shows involving pyrotechnics in

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39 countries on 4 continents. He holds proximate licenses in 4 states, and is a previous WPA board member. Beckie has been doing pyrotechnics since 1995, working on such projects as the 1999/2000 New Years in Times Square, the 2002 Winter Olympics, and has worked at the Hollywood Bowl- first as a crew member, then a crew chief since 1998. In addition to this she has worked on the last several Super Bowl half time shows, and is not only the crew chief for Burning Man but also the show designer.

11) Theatrical Product Overview

Dimitri and Beckie Timohovich

This seminar is a basic intro to the types of product one might find on a close proximity shoot. We will have a discussion of the different types of devices one might encounter, then do a demo of some of the devices discussed. Disclaimer: This is strictly an intro seminar; there are many different types of devices available for proximate pyro use, please read all labels and warnings associated with any devices you may use. Never use any device that you are unfamiliar with.

This seminar will be conducted down by the B line. If you don't want to stand, please bring your own chair.

12) Making Go-Getters and Crossette Comets

Mark Devon

In this seminar Mark plans on reprising his ground breaking class on animated parlon/perchlorate stars and urges you to stop using all your acetone up removing your fingernail polish and instead save for the class. As time permits he will explore some pressed stars such as crossettes, hummers and comets with his trusty Carver model C 12 ton bench press. And then come back to the parlon theme with a discussion of "cast" hummers as a means of speeding up the process.

Mark promises not to be in France talking modulation techniques with weird French startup dudes this time when he should in fact be in Havasu blowing things up like a normal person. He also recommends Stephen Clarkes' wonderful book "A thousand years of annoying the French", available at Amazon.

Mark Devon was born in a crossette fire hurricane, and he howled at his ma in the drivin' rain. (What was his mom doing shooting crossettes in the rain? This was, like, the sixties in Detroit, Mich. Mom was supposed to flit about the house all dolled up making sure everything was spotless with some new cleaner she saw on TV) But it's alright now, in fact it's a gas... Jumpin Jack flash!

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Mark can bench press 12 tons - how much can YOU press?

13) Handheld Fountains Workshop

Steve Majdali

Learn to make a Hand Fountain, using hand-rolled paper tubes and iron from brake drum linings. The effect is described by Steve Majdali as "...sort of like senko hanabi on steroids...." This is a great class for novices, who will appreciate the simplicity of the project, and for 'old-timers' who will appreciate the novel approach and beautiful effect.

Steve Majdali is a charter member of the WPA, a member of the PGI since 1984, and is an executive member of the Reaction Research Society (the oldest amateur rocketry organization in the USA). He has been published in several pyrotechnic newsletters as well as *Pyrotechnica* and *American Fireworks News*. Always willing to share, Steve has given seminars or demonstrations at every PGI convention attended so far (17 to date) and four times or more at Winter Blast. Steve is a fabricator of pyrotechnic tooling, an amateur chemist, and a pyrotechnic consultant and educator. Steve was a licensed pyrotechnic operator for over twenty years in CA. Steve is an electrical mechanic by trade and an inventor/tinkerer by nature. He's been a fireworks enthusiast since youth and learned machining to further his research in pyrotechnics and rocketry. He is mostly self-taught in chemistry, fluid power systems and writing

14) An Introduction to the Fire One System

Al Newman – Bay Fireworks

15) Breakfast with Dr. Bob

Starring Dr. Robert Winokur

For the first time on the Hospitality Tent Stage, glitter phenomenologist Dr. Bob will host a live talk show during the Boy Scout Pancake Breakfast. Several prominent pyro guests will appear on the show while Dr. Bob interviews them, posing daring questions pertinent to their area of expertise. Come early, get a plate of local fundraising hotcakes, a good seat, and enjoy some hot topics to start your day.

Dr. Robert (Bob) Winokur has been a biologist and professor at the University of Nevada, Las Vegas since 1978. As member of the PGI since 1971, Bob served as their president for two years in the 1980's and has been a frequent contributor to and the editor of the PGI bulletin. Bob is also president of Las Vegas Display Fireworks, Inc., a display company doing shows in the Las Vegas area since 1981. He is the

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author of *The Pyrotechnic Phenomenon of Glitter* (Pyrotechnica No. 2, 1978), a contributing editor to *Pyrotechnica*, *Occasional Papers In Pyrotechnics*, an occasional reviewer of articles published in the *Journal of Pyrotechnics*, and a major contributor to the early PGI Shooter's Safety Course and manual. Bob is a frequent seminar speaker at PGI and WPA conventions, and is famous for initiating flashes of light and puffs of white smoke of questionable toxicity during his lectures.

16) Hand Rolled Rocket Casings

Roy Feathers

Before clay and hydraulic presses, rocket casings were rolled wet and choked to form the nozzle. In this demonstration, Roy shows the correct technique for the process.

Roy Feathers is a long time member of the WPA and a charter member of the PGI. A display operator for over 30 years, his early display credits include apprenticing under PGI founder Max Vander Horck on a display at the age of 20, and working on the 1974 Worlds Fair in Spokane Washington. Over the years, Roy has mastered a number of traditional as well as original firework making techniques, three of which he will demonstrate in this seminar.

17) Mine Construction for Beginners

Mike Garrett/Todd Hall

Are you looking for a simple way to ease into manufacturing fireworks? Or, do you have a large pile of stars lying around begging to be burned? Or, are you simply available for two hours Saturday morning with nothing better to do? Whatever the case, come over to the Bag Mine Construction for Beginners seminar and we'll show you how simple and easy it is to make a fireworks mine. No fancy compounds to mix, no high power flash burst required, effects are easy to obtain, and maybe best of all there are very few wrong ways to make a mine. We'll show you a couple proven right ways to get you started. It's fast, easy, and fun to do. You will look like a fireworks manufacturing genius in no time. Each participant makes their own 3" bag mine with guidance. (\$5 materials fee per participant, standard safety gear including eye protection required.)

Mike Garrett is a country boy stuck in Silicon Valley by circumstances. He relaxes with gardening, fishing, kicking the occasional soccer ball around, and launching high powered rockets into the blue. Recently he rediscovered his love of fireworks and

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joined the Western Pyrotechnic Association. He's having so much fun with BP that he can hardly control himself.

Todd Hall is one of those anonymous guys who mixed pyrotechnics and performance art at the age of 12 behind the barn (black powder, model canons and Polaroid cameras). These developed through the 1970s teenage years with flame fire dives at the public pool, and matured on stage in his New York college days with anything that could be legally ignited or exploded in public. Todd received a grant from the NEA in San Francisco in the 80s as a guest sculptor & performance artist at the SF Art Institute and was never invited back. Fireart is such a misunderstood field.

From 1984 to 2004 he created 20 annual fireart performances at a Sierra Nevada ranch frequented by President Hoover (in the 30's) and the Grateful Dead (70's), among others. Fast forward to the late 1990's into the early 2000s and his epiphany when learning of the WPA, Mexican castillos & toritos and 16" shells.

18) Building Pinwheels with Pre-purposed Class-C Fountains Jackalopes

Learn how to make fun and exciting pinwheels using everyday class-C fountains. Note: the objective of this seminar is to construct pinwheels for later use on a larger Jackalope set piece that will be shot on Sunday night. Thus, the Jackalopes will keep the fruits of your labor. However, you will get to make some magic happen on Sunday night. Location: J-Line. All materials provided.

19) Pyrotography Tom Calderwood

A lot of pyros shoot fireworks and a lot more also shoot fireworks - with their digital camera. Tom will show off some of his work as well as tips for getting that *perfect* fireworks picture. Daytime class discussion will include camera and related equipment use, computer processing, camera settings and setup locations. Afterwards we will informally meet on the track to practice with our cameras what was learned in the tent. Tom has a no-secret policy. His techniques are also posted on his web site - www.thecalderwoods.org/pyro.htm.

Tom Calderwood is the current Publications V.P. for the WPA. A lot of his photography can be seen throughout the publications articles. Tom got hooked

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on pyro when he was given a (stolen) pack of Black Cats at age 8. He soon discovered Estes and Centuri rockets, and these took priority over 'crackers, sparklers and smoke bombs. His life was forever marred, er, changed, when a friend called him from WinterBlast saying "You gotta go to one of these things before they're illegal!" Tom is a professional photographer & videographer for one of the 'big oil' companies, and thanks you from the bottom of his heart for supplying enough funds to purchase very nice camera equipment – every time you fill'er up.

20) Expedient 5" Comet Manufacture

Jim Widmann

This seminar will detail a method of making 5" "Plastisol" comets using Phenolic Resin and Ethylene Glycol to bind the composition. Attendees will learn tips on using Phenolic Resin with various solvents. Several 5" comets will be pressed and then "cured" overnight to be fired the next day.

Jim Widmann - Every July 5th, as a child, Jim would get up early to collect the duds and misfires from the previous day's pyrotechnic activities so that he could construct crude devices from the various components. So started a life long fascination with all things pyrotechnic.

In 1982 Jim apprenticed with Fireworks by Grucci, shooting many shows and becoming a licensed lead operator in Connecticut in 1984. Over the years Jim has shot fireworks for most East Coast companies, and established his own firm, CT Pyro Display Co. in 1985.

Jim has been an avid competitor at the PGI conventions and has won many competitions, including level 5 aerial and best exhibition shell.

In 1998 Jim formed Connecticut Pyrotechnic Manufacturing LLC. A few years later, Jim was granted a US patent on a computer controlled aerial shell pasting machine. Soon this technology was being marketed in the form of the WASP shell pasting machines.

To date, WASP machines are in use in 21 countries, and in virtually all of the remaining US based manufacturing facilities.

21) Fuel/Air Concussion Simulator

Tom DeWille

Concussion is something that Tom DeWille knows well. Having developed a 'safe', reliable concussion

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mortar for popular proximate use, making a bigger, noisier device for outdoor use by the military for training had fewer constraints. In this seminar Tom will describe and demonstrate what happens when a really good fuel is fluffed up and ignited in free air after having had the chance to spread out a few feet. Protective earwear is advised.

Tom DeWille has been mixing chemicals against the advice of MSDS's for over 50 years and still had all of his fingers, at the time this was written and proofread.

Founder of Luna tech Inc. the maker of Pyropak Special Effect Materials and Equipment, Tom's innovations set the standard for proximate pyrotechnics, especially in the entertainment industry. Tom now lives a peaceful existence in Alabama trying to remember where he left his car keys.

22) Black Powder Rockets for Beginners

Steve Majdali, John Steinberg
\$3.00 Seminar Fee

This workshop on Traditional Black Powder Rockets is a perennial favorite at both Do-It and Winter Blast. Steve and Kurt will demonstrate how to make a "one-pound" black powder rocket. Starting with a few simple tools, a tube, some clay, a few ounces of black powder composition and a stick, they will explain all the elements that go into making a successful rocket as they demonstrate the technique. Attendees will then have a chance to make their own rocket which they can fire that night. A \$3.00 materials fee will be charged per student.

John Steinberg, MD, is the past president of the PGI (1998-2004) and also served as 2nd vice president on the PGI Board. John is a principal member of the NFPA technical committee on pyrotechnics (authors of NFPA codes 1122, 1123, 1124, 1125 and 1127), and recently helped completed the PGI's updated version of their Shooter's Certification Course. He also currently serves as PGI regulatory and industry liaison. As such, he will co-present an update on the CPSC actions against chemical vendors that threaten our hobby.

John has been fascinated by fireworks since he could steal matches from his parents. His real passion in pyro is rockets. As a dedicated anarchist, he naturally gravitated to the most unpredictable and least controllable pyro devices he could find. During his tenure as PGI president, John also authored many articles on various aspects of rocket compositions and

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construction. He and Steve Majdali will conduct a rocket seminar for our members. Feel free to ask all your rocket questions. John will take the easy ones. Steve will take the hard ones.

23) Chlorate or Perchlorate? Separating myth from reality.

Joel Baechle

To sweep, or perhaps to screen? - Once upon a time, chlorate based compositions were the norm in pyrotechnics. Many people handled chlorates safely all their lives, and died with their beds. Now they are rarely used and are forbidden under some, but not all, circumstances. What are the causes behind efforts at discontinuing their use? Chertier's Copper - what and why? So long as there are matchmakers. Is the cure worse than the disease? Sulfur, where goest Thou? The politics of perchlorates. Are there alternatives, and are they realistic, or even sensible? Bad practices vs. good formulas. The problem of engineers in the arts, or, how to offend everyone who makes a living at modern fireworks displays. Shipping and import regs vs. artistic style and the American art form. Malta as an example. Saving one's reputation. Questions will be encouraged.

Joel Baechle is from Cleveland, Ohio (the first U.S. city to declare bankruptcy!), and received his B.A. in Sociology (not to be confused with Socialism!) from Hiram College in 1974. As a good citizen, he quickly volunteered to be one of the first victims of offshore outsourcing by getting into the fireworks business immediately after then President Nixon opened China to trade with the U.S. From this unique vantage point, he was able to observe the demise of the American fireworks "industry", as he was driven from job to job and state to state by financial exigency. In the course of this journey, he has maintained that he is a pyrotechnist, not a pyrotechnician, and has worked at several fireworks facilities in the United States, and one in Asia. He has also worked in and studied a variety of industrial facilities, some while driving big rigs, or photographing railroads (or being escorted off of them). In the late Twentieth Century an opportunity to become involved in special effects presented itself. Times being what they were, he accepted the position. He has been (held) responsible for nearly anything anyone can think of, including a wide variety of military and civilian pyrotechnics and special effects. His interests are many and varied, including all aspects of fireworks (particularly historical methods), photography, bartending, fragrances and perfume, mountain hiking, gardening and landscape design,

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railroads and signaling, stage lighting, magic for entertainment, and the whole business of having the nerve to get up in front of people with a guitar, an amp and a microphone and carry the ball just a little bit further. Last April he fronted a band in Sacramento, California, singing three of the five songs while playing bass and harmonica, and did ZZ Top's "Tush" in full beard, sunglasses and Texas brim, with fake fur all around the bass, of course. In other words, he has no sense at all!

Anyone interested in establishing a university level Chair of Pyrotechnics is encouraged to contact him at once! (Bring cash!!) Described as "Just plain mean" by one of Hollywood's top special effects men, he currently resides with his wife, Barbara, in northern California. They have three children (that he knows of). Famous quote: "One cat is a friend, two are good company, and three or more are an infestation!" He continues to work on his book, My Life In Fireworks: Forty Years of Despair.

24) Daylight Shell Workshop

Tom DeWille and Steve Wilson

There has been a recent interest on the WPA mailing list about the construction of colored daylight shell effects. While there many ways to create interesting aerial effects for daytime displays, such as colored smoke stars, this workshop will concentrate on building shells containing colored powder and a burst charge. The end result of this workshop will be completion of enough shells to shoot a short demo – which will be set up immediately thereafter and shot before sundown!

25) Electrical Firing Systems

Lynden King and Chuck Eriksen

Lynden & Chuck will be conducting a short seminar on the set up, use and firing of several different kinds of electrical firing systems: commercial and homemade, high power and low power. They will show the good and the bad points of electrical firing, some that are easy to understand and some that are more complicated, but can give you more versatility. There will be examples of the way electric matches are connected to quick match and the dos and don'ts of using electric matches. They'll go through the connections of cables and plugs all the way through to "zip" wire and some of the quick an' easy ways to strip and connect wires. And finally, You'll be shown the importance of when to check for continuity, getting continuity, and the safety aspects of checking continuity.

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Lynden King was first introduced to fireworks displays by John Sullivan of the old California Fireworks Company (Red Devil) when he was 16 years old. John helped Lynden get his license a month after he turned 21 in 1973 and Lynden did his first show a few weeks after that. He has been putting together firework shows for 42 years and is involved in 20 to 30 firework displays a year, all of which are partially or completely electrically fired. Lynden has been a member of the WPA too long now. He's running for President 'cause he heard from Kief that the WPA had good retirement benefits. (Or not...)

Chuck Eriksen began his fireworks experience as a crew member of the Redding JC's in 1976. He has a California and Nevada state basic pyrotechnic operator's license. Chuck has been a member of the WPA for 10 years and is involved in approximately 25 shows a year. He has also assisted in close proximity displays. Almost all of these shows are performed with electrical systems.

26) Exotic and Endangered Fireworks making a U.S. Comeback!

Aaron Mayfield

The art of utilizing fewer numbers of exotic fireworks to produce displays inside the US has transcended over the years into displays incorporating the utilization of mass numbers of inexpensive fireworks in the displays within the United States. As prices of fireworks increase around the world, this is becoming more and more difficult. I will be discussing techniques that will allow you to utilize a considerably lower number of exotic fireworks to produce displays that are far more breathtaking than the norm of today's fireworks shows. Techniques such as how many seconds does the human brain need of "dark sky" after seeing a breathtaking unique display shell within a pyro-musical to actually store what it has just witnessed into the memory banks before moving on to another scene, flight, etc. in the sky? What are the differences of effect types and color variations when comparing Spanish product to Italian product or Chinese to Japanese product? Aaron will prepare a variety of products to bring into the class, such as large multi-breaks, comets with mines in one shot, and large Japanese style ball shells with rising effects. This will be a very educational and helpful course that I'm sure many will be enthralled with.

Aaron Mayfield is the owner of AM Pyrotechnic Displays and the owner of AM Pyrotechnics Manufacturing. Aaron is a member of the APA, WPA, and display provider for many NFA, WPA, and PGI

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conventions shows. He has worked with several companies in Europe on show set-ups in Sicily, Italy and several locations within Spain. Aaron has designed multiple unique shell varieties throughout several factories, and maintains unique shell innovations within his own manufacturing division, teaming up together with Bill Page to make some very unique effects here in the US. He has also attended many displays in Europe, Japan, Italy, and China and has toured many European and Chinese factories. As such, Aaron is intimately familiar with display techniques in many countries and the various differences between our displays here in the US and the European displays, primarily speaking of the choreography differences, quality differences in product within shows, and different types of set-up. Aaron prides himself at mixing all of the above mentioned techniques in an artistic manner in a pyro-musical display, joining techniques he has learned in Japan, Italy, Spain, and the US with his innovative product manufactured together with Bill Page right here in the United States.

27)The Realities of Realgar

Dr. Robert Winokur

What is it Realgar? Are there different kinds? Bob will discuss its appearance, chemical structure, fundamental properties, and synonyms. How does it differ from Orpiment (arsenic trisulfide - yellow arsenic) Other questions that will be answered are:

- Why has it been so difficult to find?
- How toxic is it?
- How has it been used in the past?
- How might it be utilized effectively today?
- Are there effects using realgar that are unique to realgar?
- What are the safety considerations when using realgar?
- Where can I obtain realgar?

Demonstrations will include:

- Realgar and potassium nitrate mixture burning.
- Realgar and potassium chlorate (a mechanical sensitive mixture)
- Shimizu's chrysanthemum star containing realgar
- Realgar smoke formulation (white and yellow smoke)