

2008 PGI Convention - Gillette - Schedule

Time	Building	Activity	Presenter	Cost	Pre Reg
Saturday August 9, 2008					
8:00 AM - 7:00 PM	Energy Hall - Foyer	Registration	Cleveland		
9:00 AM - 5:00 PM	Central Pavilion	Trade Show Setup	D'Ambrosia		
9:00 AM - 5:00 PM	Chem Barn	Chemical Sales Setup	Nowicki		
TBD	Energy Hall - Wyoming	Competition Registration	Dimock		
9:00 AM - 5:00 PM	East Pavilion - NorthWest	Collector's Corner Setup - Pyrobilia	Bender		
10:00 AM - 5:00 PM	C Barn	Class C Setup	Lillich & Taylor		
Noon - 2:00 PM	Energy Hall - Art Room	Pyro Art Show Setup	Nelson		
Noon - 5:00 PM	Energy Hall - Devil Tower	Seminar and Workshop Registration	LaCous		
3:00 PM - 4:00 PM	Energy Hall - Gillette	JPA Kickoff Meeting	Richards		
4:00 PM - 1:00 AM	Open B & C Shoot Sites	Open Shooting	Registrants		
5:00 PM - 9:00 PM	Chem Barn	Chemical Sales	Nowicki		
5:00 PM - 12:30 AM	C Barn	Class C Sales	Lillich & Taylor		
8:00 PM - Midnight	C Barn	Vendor FFFF Hospitality	Lillich & Volunteers		
Sunday August 10, 2008					
8:00 AM - 7:00 PM	Energy Hall - Foyer	Registration	Cleveland		
9:00 AM-1130 AM	Heritage Theatre	Board Meeting	Officers		
9:00 AM - 5:00 PM	Central Pavilion	Trade Show	D'Ambrosia		
3:00 PM - 5:00 PM	C Barn	Class C Setup	Lillich & Taylor		
9:00 AM - 5:00 PM	Chem Barn	Chemical Sales Setup	Nowicki		
TBD	Energy Hall - Wyoming	Competition Registration	Dimock		
9:00 AM - 5:00 PM	East Pavilion - NorthWest	Collector's Corner - Pyrobilia	Bender		
10:00 AM - 2:00 PM	Energy Hall - Art Room	Accept Pyro Art Show Entries	Nelson		
11:00 AM - Noon	Energy Hall - Devil Tower	Presenters Meeting	LaCous		
Noon - 5:00 PM	Energy Hall - Devil Tower	Seminar and Workshop Registration	LaCous		
1:00 PM - 2:00 PM	After Glow Tent	Competitors Meeting	Dimock		
1:00 PM - 5:00 PM	East Pavilion - Mid 1	Italian Style Shells For Competition - Part 1 *	Canny & Jones	\$25	Yes
1:00 PM - 5:00 PM	East Pavilion - Mid 2	16" Ball Shell Assembly	Smith		
1:00 PM - 3:00 PM	Energy Hall - Gillette	JPA Business Meeting	Richards		
2:00 PM - 6:00 PM	Energy Hall - Art Room	Pyro Art Show Viewing	Nelson		
2:00 PM - 3:00 PM	Energy Hall - Buffalo	Judges Meeting	Tilford		
3:00 PM - 4:30 PM	East Pavilion - North	Multi shot cake construction *	Machunze	\$15	Yes
3:00 PM - 5:00 PM	Magazine Area	Competition Safety Inspection	Bahr & Swisher		
3:00 PM - 4:00 PM	Class C Shoot Site	C Safety Class	Mathers & Richards		
5:00 PM - 5:30 PM	Track	Competitors Meeting	Dimock		
5:00 PM - 9:00 PM	Chem Barn	Chemical Sales	Nowicki		
5:00 PM - 9:00 PM ***	C Barn	Class C Sales	Lillich & Taylor		
5:00 PM - 8:30 PM	Open B & C Shoot Sites	Open Shooting	Members		
7:00 PM - 8:00 PM	Competition Trailer / Track	Competitors Judges Meeting - Prep for Evening	Tilford		
8:30 PM - 8:45 PM	Track	Announcements & Welcome	Officers		
8:50 PM - 9:00 PM	Track	National Anthem	TBA		
9:00 PM - 10:00 PM	Track	Opening Show	TBA		
10:00 PM	Track	Competition	Competitors		
11:00 PM	Afterglow Tent	Afterglow	Walczak		
* Seminars has a fee					
*** May reopen after competition if time permits					

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Time	Building	Activity	Presenter	Cost	Pre Reg
Monday August 11, 2008					
8:00 AM - 7:00 PM	Energy Hall - Foyer	Registration	Cleveland		
9:00 AM - Noon	Heritage Theatre	Business Meeting	Board		
TBD	Energy Hall - Wyoming	Competition Registration	Dimock		
Noon - 5:00 PM	Energy Hall - Devil Tower	Seminar and Workshop Registration	LaCous		
Noon - 3:00 PM	Energy Hall - Art Room	Pyro Art Show Judging	Nelson		
Noon - 5:00 PM	East Pavilion - NorthWest	Collector's Corner - Pyroabilia	Bender		
Noon - 5:00 PM	Central Pavilion	Trade Show	D'Ambrosia		
Noon - 1:30 PM	East Pavilion - Mid 1	Widmann's 24" Shell Hemi creation	Widmann		
Noon - 1:30 PM	East Pavilion - Mid 2	Jeweled Fountain Construction *	Machunze	\$15	Yes
1:00 PM - 3:00 PM	Heritage Theatre	Newcomers Meeting	Board		
1:00 PM - 3:00 PM	Energy Hall - Gillette	Sagaria's Pyrotechnic Choreography - Controlling the Burn	Sagaria		
1:00 PM - 3:00 PM	East Pavilion - Display	JPA Show Planning - Electric Course	Mathers & Richards		
2:00 PM - 5:00 PM	East Pavilion - Mid 1	Italian Style Shells For Competition - Part 2 *	Canny & Jones	\$25	Yes
2:00 PM - 5:00 PM	East Pavilion - Mid 2	Junior Pyro Chain Fuse Effects	McDanal & Anderson		
1:00 PM - 5:00 PM	East Pavilion - North	Bahr's Beginners Italian Color & Bottom Shot - Part 1 *	Bahr	\$20	Yes
2:00 PM - 4:00 PM	Energy Hall - Buffalo	Into to Geocaching	Cleveland		
3:00 PM - 5:00 PM	Energy Hall - Gillette	Pyrotechnics from the Ground Up	Madziarczyk		
3:00 PM - 4:00 PM	Class C Shoot Sites	C Safety Class	Mathers & Richards		
4:00 PM - 8:30 PM	Open B Shoot Site	Open B Shooting	Registrants		
4:00 PM - 1:00 AM	Open C Shoot Site	Open C Shooting	Registrants		
5:00 PM - 5:30 PM	Track	Competitors Meeting	Dimock		
5:00 PM - 12:30 AM	C Barn	Class C Sales	Lillich & Taylor		
5:00 PM - 9:00 PM	Chem Barn	Chemical Sales	Nowicki		
7:00 PM - 8:30 PM	Competition Trailer / Track	Competitors Judges Meeting - Prep for Evening	Tilford		
8:30 PM	Track	Competition	Competitors		
11:00 PM	Afterglow Tent	Afterglow	Walczak		
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Time	Building	Activity	Presenter	Cost	Pre Reg
Tuesday, August 12, 2008					
8:00 AM - 10:00 AM	Energy Hall - Devil Tower	PGI Certified Trainer Meeting	Hopper		
8:00 AM - 7:00 PM	Energy Hall - Foyer	Registration	Cleveland		
9:00 AM - 5:00 PM	Central Pavilion	Trade Show	D'Ambrosia		
9:00 AM - 5:00 PM	East Pavilion - NorthWest	Collector's Corner - Pyrobilia	Bender		
9:00 AM - Noon	East Pavilion - North	Bahr's Beginners Italian Color & Bottom Shot - Part 2 *	Bahr	\$20	Yes
9:00 AM - Noon	East Pavilion - Mid 1	6" Ball Shells for Beginners Class 1 Part 1 *	Smith	\$10	Yes
9:00 AM - 10:00 AM	Energy Hall - Buffalo	Junior Judges Workshop or How to be a real pyro judge for Junior PGI members	Tilford		
9:00 AM - 10:30 AM	Energy Hall - Gillette / Class C	Pyrotechnic Chemistry - Factors Effecting Burn Rate	Smith, Smith & Steinberg		
10:00 AM - Noon	East Pavilion - Mid 2	Lance Works For All Occasions *	Hanson	\$10	
10:00 AM - Noon	Afterglow Tent	Paul Biersach's Dragon's Breath *	Biersach	\$5	
10:00 AM - Noon	Energy Hall - Art Room	Pyro Art Show Viewing	Nelson		
10:00 AM - Noon	Track	JPA Display Setup	Mathers & Richards		
10:30 AM - Noon	Energy Hall - Gillette	Principles and Practicalities in Choreographing a Fireworks Display: Music for Pyrotechnic Displays	Gingrasso		
11:00 AM - Noon	Energy Hall - Buffalo	Devon's 36" Shell Presentation	Dickenson		
12:30 PM - 1:30 PM	Energy Hall - Prairie Dog	Open AA Meeting	Participants		
1:00 PM - 3:00 PM	Energy Hall - Gillette	Insurance Solution for the Pyrotechnics Industry	Towne		
1:00 PM - 3:00 PM	East Pavilion - Mid 2	3 break 8" Large Multibrak Shell Class *	Hay	\$5	Yes
1:00 PM - 4:00 PM	East Pavilion - Mid 1	6" Ball Shells for Beginners Class 2 Part 1 *	Smith	\$10	Yes
1:00 PM - 2:30 PM	East Pavilion - North	Fireproof tube construction, super pyro glue, rocket heading construction - Proceeds Donated to Fireworks Defense Fund and the Junior Pyros *	Machunze	\$15	Yes
1:00 PM - 2:30 PM	Energy Hall - Buffalo	Youth Opportunities in PGI	Sklebar		
2:00 PM - 5:00 PM	Afterglow Tent	Hollywood Special Effects *	Nicholls	\$20	Yes
3:00 PM - 5:00 PM	Heritage Theatre	Fireworks and the Federal Explosive Laws (ATF)	Bangs & O'Brien		
3:00 PM - 5:00 PM	Energy Hall - Gillette	Frontage Fireworks 101 *	Hanson	\$20	Yes
3:00 PM - 5:00 PM	Energy Hall - Buffalo	Club Officer Round Table	Sklebar		
3:00 PM - 5:00 PM	East Pavilion - Mid 2	BP Rockets for Beginners	Majdali, Medlin, Steinberg, and Anderson		
3:00 PM - 4:00 PM	Class C Shoot Site	C Safety Class	Mathers & Richards		
3:30 PM - 5:00 PM	East Pavilion - North	Hand Rolled Chocked Rocket Casings and Time Fuse Demos	Feathers		
4:00 PM - 8:30 PM	Open B Shoot Site	Open B Shooting	Registrants		
4:00 PM - 1:00 AM	Open C Shoot Site	Open C Shooting	Registrants		
5:00 PM - 5:30 PM	Track	Competitors Meeting	Dimock		
5:00 PM - 12:30 AM	C Barns	Class C Sales	Lillich & Taylor		
5:00 PM - 9:00 PM	Chem Barn	Chemical Sales	Nowicki		
7:00 PM - 8:30 PM	Competition Trailer / Track	Competitors Judges Meeting - Prep for Evening	Tilford		
8:30 PM	Track	Competition	Competitors		
11:00 PM	Afterglow Tent	Afterglow	Walczak		
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Time	Building	Activity	Presenter	Cost	Pre Reg
Wednesday August 13, 2008					
8:00 AM - 7:00 PM	Energy Hall - Foyer	Registration	Cleveland		
8:00 AM - 1:00 PM	Heritage Theatre	PGI Display Operators Course *	Hopper	\$40	
8:00 AM - Till Done	Track / East Pav - Center	JPA Display Setup	Mathers & Richards		
9:00 AM - 5:00 PM	Central Pavilion	Trade Show	D'Ambrosia		
9:00 AM - 5:00 PM	East Pavilion - NorthWest	Collector's Corner - Pyroabilia	Bender		
10:00 AM - 6:00 PM	Energy Hall - Art Room	Pyro Art Show Viewing	Nelson		
10:00 AM - Noon	Afterglow Tent	Paul Biersach's Dragon's Breath *	Biersach	\$5	
10:00 AM - Noon	East Pavilion - North	Suberry's "C" Shell for Ladies*	McDanal & Anderson	\$15	Yes
10:00 AM - Noon	East Pavilion - Mid 2	Making Black Powder	Creagan		
10:00 AM - Noon	East Pavilion - Mid 1	Tourbillions *	Medlin	\$2	
10:00 AM - Noon	Energy Hall - Buffalo	Fireworks First Aid	Johnson & Lowe		
10:00 AM - Noon	Energy Hall - Gillette	Mega String / Super String Discussion	Wiprud / Merrit		
11:00 AM - Noon	Class C Shoot Site	Mini Girandola *	Biersach	\$10	Yes
Noon - 1:30 PM	Energy Hall - Prairie Dog	Old Snorts Meeting	Berk		
Noon - 1:00 PM	Class C Shoot Site	Mini Girandola *	Biersach	\$10	Yes
1:00 PM - 2:00 PM	Class C Shoot Site	Mini Girandola *	Biersach	\$10	Yes
1:00 PM - 2:30 PM	East Pavilion - Mid 2	Shuttlecock Rockets – Flying Shuttlecocks *	Creagan	\$5	
1:00 PM - 2:30 PM	East Pavilion - Mid 1	6" Ball Shells for Beginners Class 1 Part 2 *	Smith	\$10	Yes
1:00 PM - 3:00 PM	Energy Hall - Gillette	China's Fireworks Festival	LaCous		
1:00 PM - 3:00 PM	East Pavilion - North	Suberry's "C" Shell for Gentleman *	McDanal & Anderson	\$15	Yes
2:00 PM - 4:00 PM	Energy Hall - Buffalo	The Golden Age of Chinese Firecrackers	Kantrud		
2:00 PM - 3:00 PM	Class C Shoot Site	Mini Girandola *	Biersach	\$10	Yes
2:30 PM - 4:30 PM	Heritage Theatre	PGI Display Operators Course*	Hopper		
3:00 PM - 4:30 PM	East Pavilion - Mid 2	Multi shot cake construction *	Machunze	\$15	Yes
3:00 PM - 4:30 PM	East Pavilion - Mid 1	6" Ball Shells for Beginners Class 2 Part 2 *	Smith	\$10	Yes
3:00 PM - 5:00 PM	Afterglow Tent & Track	Firing of Anvils	Divis & Haas		
3:00 PM - 5:00 PM	Energy Hall - Gillette	An Evolution of Devices, Techniques and Formulas	Homan		
3:00 PM - 5:00 PM	East Pavilion - North	Bahr's Beginners Italian Color & Bottom Shot - Part 3 *	Bahr	\$20	Yes
3:00 PM - 4:00 PM	Class C Shoot Site	C Safety Class	Mathers & Richards		
4:30 PM - 6:00 PM	Track	PGI Display Operators Course *	Hopper		
4:00 PM - 8:30 PM	Open B Shoot Site	Open B Shooting	Registrants		
4:00 PM - 9:30 PM	Open C Shoot Site	Open C Shooting	Registrants		
5:00 PM - 5:30 PM	Track	Competitors Meeting	Dimock		
5:00 PM - 9:00 PM	C Barn	Class C Sales	Lillich & Taylor		
5:00 PM - 9:00 PM	Chem Barn	Chemical Sales	Nowicki		
7:00 PM - 8:30 PM	Competition Trailer / Track	Competitors Judges Meeting - Prep for Evening	Tilford		
8:30 PM - 9:00 PM	Track	Competition	Competitors		
9:30 PM -10:30 PM	Track	Evening Show/Demos	TBA		
10:30 PM - 12:30 AM	C Barn	Class C Sales	Lillich & Taylor		
10:30 PM - 1:00 AM	Open C Shoot Site	Open C Shooting	Registrants		
10:30 PM	Track	Competition	Competitors		
11:00 PM	Afterglow Tent	Afterglow	Walczak		
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Time	Building	Activity	Presenter	Cost	Pre Reg
Thursday August 14, 2008					
8:00 AM - 7:00 PM	Energy Hall - Foyer	Registration	Cleveland		
9:00 AM - Noon	Heritage Theatre	Business Meeting	Officers		
Noon - 1:00 PM	TBA	Competition Judges Brunch	Tilford		
Noon - 3:00 PM	Energy Hall - Gillette	JPA Business Meeting and Celebration	Richards		
12:30 PM - 1:30 PM	Energy Hall - Prairie Dog	Open AA Meeting	Participants		
1:00 PM - 5:00 PM	After Glow Tent & Track	Proximate Pyrotechnics in Performance Venues *	McDanal	\$5	Yes
1:00 PM - 6:00 PM	Energy Hall - Art Room	Pyro Art Show Viewing	Nelson		
1:00 PM - 3:00 PM	Heritage Theatre	PGI Auction	Berk		
1:00 PM - 5:00 PM	Central Pavilion	Trade Show	D'Ambrosia		
1:00 PM - 2:30 PM	East Pavilion - Mid 2	Jeweled Fountain Construction *	Machunze	\$15	Yes
1:00 PM - 3:00 PM	Energy Hall - Gillette	Sagaria's Pyrotechnic Choreography - Controlling the Burn	Sagaria		
1:00 PM - 2:30 PM	Class C Shoot Site	Mini Girandola Competition	Biersach		
3:30 PM - 5:00 PM	East Pavilion - North	Hand Rolled Chocked Rocket Casings and Time Fuse Demos	Feathers		
3:00 PM - 4:00 PM	Class C Shoot Site	Class C Bloopers	Mathers & Richards		
3:00 PM - 5:00 PM	East Pavilion - Mid 1	6" Mines	Bell		
3:00 PM - 5:00 PM	East Pavilion - Mid 2	BP Rockets for Beginners	Majdali, Medlin, Steinberg, and Anderson		
3:00 PM - 5:00 PM	East Pavilion - NorthWest	Collector's Corner - Pyroabilia	Bender		
3:30 PM - 5:00 PM	Energy Hall - Gillette	Cartoons and Shorts: Fireworks!!!	Haralovich		
6:00 PM - 8:00 PM	Energy Hall - Prairie Dog	NHPA Club Get Together	Richards		
3:30 PM - 5:00 PM	Heritage Theatre	Competition Rules Committee	Freeman		
4:00 PM - 1:00 AM	Open B & C Shoot Sites	Open Shooting	Registrants		
5:00 PM - 12:30 AM	C Barn	Class C Sales	Lillich & Taylor		
5:00 PM - 9:00 PM	Chem Barn	Chemical Sales	Nowicki		
8:00 PM - Midnight	C Barn	Vendor FFFF Hospitality	Lillich & Taylor		
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Time	Building	Activity	Presenter	Cost	Pre Reg
Friday August 15, 2008					
8:00 AM - 3:00 PM	Energy Hall - Foyer	Registration	Cleveland		
9:00 AM - 5:00 PM	Central Pavilion	Trade Show	D'Ambrosia		
9:00 AM - 5:00 PM	East Pavilion - NorthWest	Collector's Corner - Pyroabilia	Bender		
9:00 AM - 8:00 PM	East Pavilion & Track	Superstring Construction (Hands-On)	Merrit		
9:00 AM - 8:00 PM	Track	Megastring Construction (Hands-On)	Wiprud		
10:00 AM - 4:00 PM	Energy Hall - Art Room	Pyro Art Show Tear Down	Nelson		
10:30 AM - Noon	TBA	Competition Review - Judge Roast	Dimock		
10:00 AM - Noon	Heritage Theatre	Future Site Discussion	Board		
Noon - 1:00 PM	Energy Hall	Social Hour	PGI Officers		
1:00 PM - 4:00 PM	Energy Hall	PGI Awards Banquet	PGI Officers		
4:00 PM - 8:30 PM	Open B & C Shoot Sites	Open Shooting	Registrants		
5:00 PM - 8:30 PM	Chem Barn	Chemical Sales	Nowicki		
5:00 PM - 8:30 PM	C Barn	Class C Sales	Lillich & Taylor		
8:00 PM - 8:10 PM	Track	Announcements & Welcome	Officers		
8:10 PM - 8:15 PM	Track	God Bless America	TBA		
8:15 PM - 8:20 PM	Track	Mega String Raffle	Flo		
8:20 PM - 8:35 PM	Track	Max Vander Horck Circle of Excellence Award	Officers		
8:35 PM - 8:45 PM	Track	Torch Passing			
8:45 PM - 9:15 PM	Track	Super-String / Mega String			
9:15 PM - 9:45 PM	Track	Tribute To Deceased Members			
9:45 PM - 10:05 PM	Track	All Stars Show	All Stars		
10:05 PM - 10:50 PM	Track	Grand Public Display	TBA		
11:00 PM - 1:00 AM	Open B & C Shoot Sites	Open Shooting	Registrants		
11:00 PM - 12:30 AM	C Barn	Class C Sales	Lillich & Taylor		
11:00 PM	Afterglow Tent	Afterglow	Walczak		
Saturday August 16, 2008					
7:00 PM	TBA	Stragglers Meeting	Lillich & Webb		

2008 PGI Convention - Gillette - Bios

Name	Bio
Anderson, Brent	Brent has grown up around fireworks. His uncle, Craig Erickson and great uncle Fred Johnson introduced him and the rest of his family to the PGI in 1991. He has been to every PGI Convention since LaCrosse, WI in '91 (when he was just three years old) except New Castle, PA in '94. In 2002 Brent met John Steinberg who graciously let him fire his "Rainbow Rockets." He was hooked. In recent years, Brent has assisted in teaching black powder rocket, and tourbillion classes at PGI and WPA events. Brent is currently attending college for a degree in chemistry and theater with a technical emphasis. He is a current member if the PGI, WPA, and NLP.
Anderson, Marlyn	Marlyn has been a PGI member since 1995 and a member of Northern Lighters Pyrotechnics (NLP) since 2000. She's always loved to watch fireworks but really got into it when her older brother, Craig, insisted she bring her family to La Crosse to see the PGI Finale. She was "hooked". Attending PGI Conventions has been a family vacation ever since. Marlyn has taken the Ladies Shell Building Class numerous times and then decided to be one of the volunteer teachers for the class. She has helped construct the Superstring , the Megastring and is a participant in the Pyro Quilt Challenge which is part of the Pyro Art Show at convention. Last year her quilt won First Place in the Quilt Challenge and was awarded the People's Choice Award for the Art Show. You've probably seen Marlyn's husband, Charlie, in the evenings in his neon green Security shirt. Her son, Brent, is one of the "four amigos" that teach the traditional black powder rocket class.
Bahr, Bill	PGI President, a leader in Italian style shell building and the presenter of this fantastic workshop for many, many years. A must see for new people in shell building.
Bell, Carter	Carter Bell is shell builder who has been competing for 10 years in PGI competitions. He was the 2004 Grand Master Award winner. He has had a passion for mines for quite a long time. He has also achieved awards in mine competitions in years 2000, 2001, 2002, 2003, 2004 and 2006.
Berk, Rob	Rob Berk has been to all but 2 conventions. He was instrumental in starting the group photo (no longer done), SuperString, Afterglow and the Old Snort's Get Together. He collects pinball machines, political buttons and firecracker packs. Along with his wife, Brigitt, they have five children, all who love fireworks
Biersach, Jim	Had a normal fascination with fireworks as a child. Firecrackers were available and crackerballs were ammo for his slingshot. On the Fourth of July an assortment of items were normally available, but fireworks were not an obsession. About 30 years ago this all changed when Mr. Richard Sheard pulled up to his workplace in an old Dodge van full of Class C fireworks. Rich explained a loophole in the law about using fireworks to "Protect your crops from birds and predatory animals." With fireworks available from Sheard, and a big gray area in the law making their use legal, a monster was created. LaCrosse was the first convention attended and boy what a bunch of nuts having a good time. He fit right in. This soon progressed to assembling and competing. The first event was Level One Shell at Muskegon and a First Place was achieved. The ego was inflated and Jim was off and running. A fascination with girandolas emerged. Rockets were made and things progressed. A Type 20 license was granted by our friends at ATF, and what happens from here on in is pure speculation. In his day job Jim runs a successful retail and mail order hobby store.
Biersach, Paul	I began helping my father set up displays 28 years ago. I am a member of the PGI and the WPAG. My first PGI convention was Newcastle, PA. It has taken me 8 years of testing & learning to come to this effect. It was learned in the true meaning of our organization. I talked to several people around the country that do similar effects & took what I thought was the best from each. Then I tested it and refined it to what other people coined as "Dragon's Breath".
Canny, Tim	Has been a member of the PGI for 12 years and has shot in competition 9 years. I love fireworks and have since I was a very young lad,. Sometimes when my mom thought I was down the street playing, I would hitchhike the 34 miles to Mo. to buy 15 cents worth of firecrackers. I like to build all kinds of shells ball and canister. I'm married, and live in East Moline, IL and enjoy retirement.
Cleveland, Robin	I have been involved with fireworks since I was 3 days old. My family believed in starting us early. Our family still shoots shows during the year. My experience with the guild began back in 1992. I worked the rocket safety line for many years, before switching to the fire/medical team. Since my schooling was in the medical field, I felt I could help out more there. Currently I am the Membership Services Manager for the guild. As if you didn't know that already.
Creagan, Dan	Dan Creagan is an avid hobbyist whose favorite pyro devices are rockets of all sizes. He has been interested in pyro since he was a child and in the last few years he has run a website for pyro related information located at wchitabuggywhip.com/fireworks. He is an educator and an IT geek. He and his wife Sue live in Nebraska (middle earth) with two Golden Retrievers. Ask him about the time one of their dogs shut down the St. Louis Airport!
Dickenson, Devon	Same as Previous
Divis, Dic	The instructors are licensed, trained and experienced with a substainstial amount of background in display fireworks events. More than 60 yests combined experience with presentation partner. Firing of Anvils for 12 years and still enjoying it!!!
Feathers, Roy	Roy is a long time member of WPA and a original member of PGI. He has been a licensed pyrotechnic operator since 1976. His early display credits include apprenticing under Max Vander Hourck in the late 60's and 70's before PGI was formed. Roy was part of a big crew at the 1974 World's Fair in Spokane Washington that built 200 5x10 foot frames for Lance, and hand fired their second 24" shell. As Roy says, Ah! those were the good ol'days. At the Los Angles Coliseum in 1975, Roy was part of a crew that assembled 200 frames for a 30 foot by 70 foot American Eagle. Over the years, Roy has mastered a number of traditional as well as original firework making techniques, three of which will be demonstrated in this workshop. You will have your chance to try some of them as well.
Gingrasso, Susan	Susan Gingrasso, a pyrotechnic and dance choreographer and fireworks fan, Susan has presented seminars on choreographic principles as applied to pyrotechnics displays for PGI since 2001.

2008 PGI Convention - Gillette - Bios

Name	Bio
Hanson, Garry	Gary Hanson has attended every PGII convention since 1979 and is a past Grand Master award winner. President and CEO of Precocious Pyrotechnics, Inc. of one of the last USA FULL line fireworks manufactures and display companies left. His knowledge as an electrical and mechanical engineer and information attained from his work in these fields has been used in designing and building numerous machines for use in the pyrotechnics field. Some of the machines built include a ¼" safety fuse machine and automated cutting and punching, etc. He has authored articles for pyrotechnic publications and several "how to" booklets on shell construction. Organizations in which he has served as a member or officer include: NLP, PGII, NFA, APA, PI IFA, WPA and NFPA.
Haralovich, Mary Beth	Mary Beth Haralovich teaches film and television history at the University of Arizona in Tucson. A fireworks enthusiast, she is a PGI member and passed the PGI display operator certification course. Mary Beth is interested in the aesthetic and cultural use of fireworks in films and tv shows.
Haas, Vern	The instructors are licensed, trained and experienced with a substainstial amount of background in display fireworks events. More than 60 yests combined experience with presentation partner. Firing of Anvils for 12 years and still enjoying it!!!
Hay, Fred	In real life, I am a licensed Residential Builder in the State of Michigan. My first real fireworks experience was shooting Firework displays with Wolverine Fireworks in 1995 and I built my first real shell that year. I was one of the founding members and long time vice president of MPAG. For the past 10 years I have held a BTAFE Class 20 license, and have built large multi-breaks for the MPAG displays and PGI competitions. I was one of the primary planners of the 2000 MPAG Live In Fargo and the 2002 MPAG Symphony of Fire, along with being responsible for commercial product acquisition. Current memberships include: PGI, MPAG and FPAG.
Homan, Larry	Many years experience in the display and manufacture of fireworks and special effects.
Johnson, Glenn	Active in the fire service for 36 years and an EMT for 19 years. Served as fire chief of both volunteer and career fire departments including two Paramedic level ambulance transport services. I teach fire strategy and tactics as well as both basic and advanced fire investigation. I joined the PGI in 1992 and have been to every convention since Idaho Falls in '92. Old Snort as of Appleton, '01. I joined the Fire/Medical Team in Iowa in 1997 and became Chief of the Team in 2003. With no deaths and very few significant injuries, the Team hopes that you will help us to continue that record by learning First Aid and following safe practices.
Jones, Tom	Has been a member of the PGI for 3 years and has shot in competition the last 2 years. He likes to build peanut shells! He is married and lives in Topeka, Ks where he works for a Grain Elevator.
LaCous, Mira	Mira has been an active Pyrotechnician, PGI member and pyrotechnic business owner for many years. Her and her company have involvement with APA, IFA and other groups as well. She has a strong depth of knowledge in the choreography, construction, and legalities of fireworks. Mira travels to China each year to select and work with strong suppliers that are able to produce new and cutting edge effects, as well as the long standing traditional ones. Hear about some of this journey and the Yiyuyang 2007 Fireworks Festival in this Seminar.
Kantrud, Hal	Host, 1980 and 1989 PGI conventions. Pyrobilia Chair, 1997-2006.
Machunze, Morgan	Morgan is an Engineer with passion for fireworks, jet engines, and anything loud or fast. He interest in fireworks is in the class C size. His main goal is to develop and bring new ideas and techniques to fireworks production. He has competed several times and has taken 2nd place both in rockets and the small aerial shell competition. He believes in not using toxic chemicals and risky formulas and in finding ways to reproduce effects without them.
Madziarczyk, Joe	Joe Madziarczyk is an accomplished shell builder preferring the Italian style of construction. He is also an award-winning and published photographer of pyrotechnics. For the last eight years has served as one of the judges for the PGI competitions and has served as the San Diego area VP for the Western Pyrotechnic Association. He enjoys teaching the basics of pyrotechnics to beginners and shell building.
Majdali, Steve	Steve has been a rocket enthusiast since the age of six. He has presented similar courses for the past decade at several venues include PGI, Western Winter Blast and the Florida Fall festival. He is a member of PGI, a charter member of the WPA and administrative member of RRS, the oldest amateur rocket club in the US.
McDanal, Micki	Micki is a managing partner of Artistic Fire LLC in Colorado, has been on the Board of Directors for the Rocky Mountain Pyrotechnics Guild for nine years, is the pyrotechnician on Colorado Ballet's production staff, and has a lifelong love of fireworks. She worked local fireworks displays as a volunteer from 1970 until 1996. After retiring from supervising recreation programs she devoted a great deal of time to learning more about fireworks and pyrotechnics, became licensed in Colorado as a fireworks display operator and a pyrotechnic special effects operator, and certified as a PGI Instructor. Opera houses, churches, coliseums, theater stages, hotel ballrooms, sports stadiums, ball fields, ski slopes, backyards, pool decks, hospital sunken garden, roof tops, indoor arenas, golf courses, barges, rafts and vacant fields have all been used for her choreographed display fireworks and/or proximate pyrotechnic shows. She enjoys sharing her experiences and knowledge to promote safety and encourage artistic endeavors in the use of fireworks and pyrotechnics.

2008 PGI Convention - Gillette - Bios

Name	Bio
Medlin, Kurt	Kurt 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 PGI, and the world of organized pyro. He attended his first PGI convention in 1983, gave his first seminar at the 1986 PGI convention, and won his first PGI competition in 1987 (advanced Rockets). Kurt worked his first public fireworks display in 1984. His articles and book reviews have been published in the PGI Bulletin and Pyrotechnica, Occasional Papers In Pyrotechnics. His review of Dr. Alexander Hardt's book Pyrotechnics, can be found on the web site of the International Pyrotechnic Seminar. Kurt is a life member of both the PGI & WPA and currently serving as the PGI Publications VP. Kurt is also the current president 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 PGI conventions on black powder rockets, tourbillions, large bore candles, fountain and wheel construction, and traditional Italian shell building. In addition to hands-on firework making, Kurt is interested in fireworks history and collecting antiquarian fireworks literature
Nicholls, Andrew	Andrew Nicholls holds a BA in Technical Theatre and Business. Working as a professional Pyrotechnician for more than 25 years and in the Entertainment industry for 28 years he has done well over 500 professional displays from indoor to outdoor displays. He has blown up 23 cars for movies and television. His screen credits include 'Ace Ventura Pet Detective', 'Days of Thunder', 'Lethal Weapon 4', 'Dead Presidents' and 'Operation Dumbo Drop'. In 2002 Mr. Nicholls was appointed to the NFPA Special Effects committee with regard to technical bulletins NFPA 160 and 1126.
Sagaria, John	John Sagaria - Has been a member of the PGI since 1994. Has always lived in NY and has been firing shows professionally since 1998. John holds NYS, NYC and ATF Licenses and has produced shows at the 2005 PGI (PGI Radio Show), 2006 PGI (Wizards in Winter) and 2007 PGI (Inspiration). John has produced demos for Chinese factories and has traveled to the factories in China numerous times. John loves fireworks and computers and his work is the result of combining these two loves.
Sklebar, Tom	Tom Sklebar is 1st VP of PGI after having been program chairman for PGI from 2004-2007. He has shot fireworks displays for almost 20 years and makes the occasional pyrotechnic item for his own pleasure. After his civilian retirement, his current service extends to 5 other non profit board's of directors, teaching the occasional college course, and harassing Bill Bahr and John Steinberg.
Smith, Ben	Like many of us Ben Smith is a lifelong pyro who became fascinated with fireworks at a young age. About 4 years ago, the shell building bug hit in full force. Since that time Ben has constructed hundreds of single break ball and canister shells in various sizes.
Smith, Paul	Paul Smith has a degree in chemistry and currently works at Purdue University in Chemical Education. He has over 15 years experience in demonstrating pyrotechnic chemistry in the classroom and the evening sky. He has survived working as the Open B-line Boss the past six conventions and looks forward to working on the B-line
Smith, Wes	Wes Smith was Professor of Chemistry at Brigham Young University Idaho for 23 years. With 19 years of experience in display fireworks, he was General Partner of Smith & Wilde Fireworks. He was also an editor of the Journal of Pyrotechnics for 12 years. He currently serves as one of the PGI Competition Judges.
Steinberg, John	John Steinberg is a respected authority on fireworks and explosives. He served for six years as the president of the Pyrotechnics Guild International (PGI), served for two years as the president of the Crackerjacks, and was one of the trustees on the Fireworks Foundation. He was the principal author of the PGI Display Operator Certification Course, and has published numerous articles on fireworks rockets, fireworks safety, and other related topics. Dr. Steinberg is also a licensed physician with a practice specializing in internal medicine.
Tiford, Arthur Dr.	Dr. Arthur Tilford has recently been called as the new Chief Judge. He received the Citizen-of-the Year award from the City of Yorba Linda, California for producing the best firework shows. He has taught the Chemistry merit badge for the Boy Scouts of America and has been an instructor of youth groups for many years.
Towne, Tami	Tami Towne is a partner of Ryder, Rosacker, McCue & Huston Insurance agency. We have been providing insurance to the business community for many years. Tami has been specializing in the fireworks arena for the past five. She has achieved her Certified Insurance Counselor (CIC) designation in 2006. She is a member of NFA, PGI, WPA and KFA.
Widmann, Jim	The creator of the ball shell pasting machine. Need we say more?

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Name	Course Title	Course Description
Anderson, Marlyn	Junior Pyro Chain Fuse Effects	Learn to chain fuse Class "C" effects to create a Mini Show on a Board or and an exciting flight of spinning effects. This course is designed for Junior Pyros 7 to 10 years of age.
Anderson, Marlyn	Suberry's "C" Shell	Shell building basics made simple by following step by step instructions and using Class "C" items as inserted effects. Class size is a maximum of 50 participants. There are two classes, as is tradition, one for the ladies, and one for the gentlemen. Fee is \$15.00.
Bahr, Bill	Bahr's Italian Color and Bottom Shot Shell Building	Build a complete 3" color and bottom shot class. The paper, stars, powder and completed bottom shot are provided. This class is for new people, for those that have not had the class before and want to learn the basics of shell building. Students should bring their own scissors and a clear head ready to learn the finner steps to building a original Italian style shell. Shells must be fired in Open Shooting Wed or Thur night. Cost is still only \$20.
Bell, Carter	6" Mines	The seminar will demonstrate basic construction for a 6 inch mine using various types of stars and inserts.
Biersach, Jim	Mini Girandola Made from Commonly Available Household Items	This is an entry level, fun course. In about an hours time you will make and shoot a "Mini Girandola." This is limited to new members who have not taken the course. Please give others a chance to experience the wonders of Mini-Girandola's! Cost is \$10 per person.
Biersach, Jim	Mini Girandola Competition	A simple competition, open to any PGI member. Here is your chance to show off your mini Girandola skills. Drivers must be commercial Class "C" devices. Fusing can be quick match or any other item. Entries will be weighed, and must weigh one pound our less. Remember that these are "Mini Girandas." 1/4 inch launch sticks will be provided. If you need something special, don't forget to bring it. Contact Jim Biersach 608-206-0044 or (jimpyro@hobbyhorse.com) with questions.
Biersach, Paul	Paul Biersach's Dragon's Breath	You have heard about it ! You may have seen it ! Now learn it ! Paul Biersach's "Dragons Breath" ! My formulas and complete instructions on the safe firing of a liquid fuel fireball from a steel mortar tube. This effect has been shown at PGI conventions the last two years. The WPAG Welcome To Wisconsin show in Appleton 2006 and the Ohio Pyrotechnic Arts Guild show in Fargo, ND 2007. Time permitting I will touch base on other known formulas and ghost mines.
Canny, Tim	Building 3" Italian Style shells for competition with purchased components	Build a pair of 3" Italian style shells with purchased components to enter into level 1 beginner competition. Note: this workshop is limited to those people that have never built an Italian shells and or any shell entered into competition. Please save the seats for the newer members to give them a chance to learn. All shells will be shot in competition. here is your chance to win an award!
Cleveland, Robin	Intro to Geocaching	Not all those who wander are lost. What began in 2000 among a few Global Positioning System (GPS) enthusiasts is now a hands-on adventure for more than 750,000 people around the world. In a nut shell we use multi billion dollar satellites to find Tupperware hidden in the woods.
Creagan, Dan	Making Black Powder	This is a seminar course in making black powder. Milling and milling techniques, 'hot water BP', CIA method, acquisition of chemicals and other issues will be covered. . See http://www.wichitabuggywhip.com/fireworks/blackpowder2.html for an overview of the process. This course uses easily obtainable materials.
Creagan, Dan	Shuttlecock Rockets - Flying Shuttlecocks	This is a beginning course in making a simple but fun rocket using a shuttlecock as the stabilizing device. See http://www.creagan.net/fireworks/shuttlecock.html for an overview of the process. This is a workshop course that would use easily obtainable materials (shuttlecocks, piano wire, wood and Estes rocket motors). Note that this is NOT a line rocket (aka RATS) class. These are flying rockets using shuttlecocks as fins.
Dickenson, Devon	Devon's 36" Ball Shells	An intriguing look at the construction and firing of 36" ball shells by Devon Dickenson. The presentation is a video and some lecture with questions / answers. An interesting view of some very large shells!
Divis, Dic	Firing of Anvils	The history of "Anvil Firing" dates back to the 1800's. As settlers traveled across the United States, they had limited access to items. Such things as gun powder and anvils were in ample among the settlers. Events, such as weddings, anniversaries, along with Independence Day gave cause to find a suitable manner in which to celebrate. Since the fancy and colorful sparks int he sky had not yet reached all areas of the country, the pioneers chose to combine the previously mentioned anvils and some gunpowder into a combination that could be heard and felt by anyone near and far. We

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Name	Course Title	Course Description
Feathers, Roy	Hand Rolled Chocked Rocket Casings and Time Fuse Demonstrations	Before clay and hydraulic presses, rocket casings were rolled wet and chocked to form the nozzle.. Roy shows the correct technique for the process. The second demonstration is a technique for hand rolling time fuse. The third demonstration is an original method of making black match. These are unique demonstrations of processes that were once regularly used in the industry, but now have been supplanted by modern techniques and machines. Participants will make a hand rolled time fuse and test burn it. One class member gets to crimp a 4# rocket case. Very Cool!
Gingrasso, Susan	Principles and Practicalities in Choreographing a Fireworks Display: Music for Pyrotechnic Displays	This interactive seminar will use clips from "Welcome to Wisconsin" and other PGI displays to provide you with basic principles to use in selecting music for your pyrotechnics choreography. You will also get practical tips to guide the implementation of your ideas.
Hanson, Garry	Frontage Fireworks 101	Learn how to design, build, and setup frontages with many different types of fireworks, equipment, and firing systems. We will explore how to make Z's, Fan's, Angles, and Curtain pattern/types of firing frontages using mines, comets, & small shell/bombettes. How to choreograph this type of fireworks shows for computer firing and/or manual firing systems. Come learn what it takes to make fireworks jump in to action.
Hanson, Garry	Lance Works for all Occasions	From basic to advanced lance work, explaining many different way of doing set pieces. Bring your ideas.
Haralovich, Mary Beth	Cartoons and Shorts: Fireworks Screening	This session will screen one fireworks and pyrotechnics from cartoons and shorts. A look at the good, the bad, the funny and more will be seen and reviewed. Come for this entertaining and unique look at fireworks.
Haas, Vern	Firing of Anvils	The history of "Anvil Firing" dates back to the 1800's. As settlers traveled across the United States, they had limited access to items. Such things as gun powder and anvils were in ample amount among the settlers. Events, such as weddings, anniversaries, along with Independence Day gave cause to find a suitable manner in which to celebrate. Since the fancy and colorful sparks in the sky had not yet reached all areas of the country, the pioneers chose to combine the previously mentioned anvils and some gunpowder into a combination that could be heard and felt by anyone near and far. We have recreated this event as accurately as possible based on historic fact.
Hay, Fred	3 break ** Large Multibreak shell class	This Class will discuss the processes and techniques for building large non-conventional multi-breaks shells. No wet pasting or string used. This class is only for advanced shell builders which are ALREADY FAMILIAR with Canister shell construction, pressing spoolets, spiking, and pasting, etc. This class is limited to 20 participants and will be presented in a non hands on format. Handout/Prep Charge: \$5.00.
Homan, Larry	An evolution of devices, techniques and formulas	I will recount in the time provided a detailed history of how I developed my expertise in fireworks in the early days of the PGI. I will illustrate with a description of the approximate progression of concepts and their implementation that I discovered and refined in my experiments.
Johnson, Glenn	Fireworks First aid	A look at effective first aid measures for fireworks related accidents. Brought to you by PGI medical. A good primer, or refresher, for those that work, play or live alongside fireworks.
Jones, Tom	Building 3" Italian Style shells for competition with purchased components	Build a pair of 3" Italian style shells with purchased components to enter into level 1 beginner competition. Note: this workshop is limited to those people that have never built an Italian shells and or any shell entered into competition. Please save the seats for the newer members to give them a chance to learn.
LaCous, Mira	Seminar Presentors Meeting	A brief meeting to look at seminars for the week. Contacts, setup, live material handling, and other factors that will help make the week go smoothly. It is suggested that all presentors be present, but it is not required. Check in with Mira LaCous at your earliest opportunity. Find her in Seminar Registration, at her Trade Show booth, or on the PGI radios.
LaCous, Mira	China's Fireworks Festival	A discussion and pictorial view of some work at China Factories and the 2007 Fireworks Festival in Yiyuang China.

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Name	Course Title	Course Description
Lillich, Gary	Vender FFFF Hospitality	The class C vendors sponsor a July 4th type party at convention. Every 4th of July party should have Fireworks, Food, Fun, Friends, and Fellowship. All members can enjoy a sky full of quality fireworks, and savor some food and soft drinks on open shooting nights (Saturday and Thursday). Also, they want to pay tribute to the many volunteers who make PGI work, especially Officers & Staff, Safety, Registration, Security, Fire & Medical.. Weather permitting; the Hospitality tent will be set up near the class C shooting area. Snacks and soft drinks may be available earlier, but the food line should open around 8 PM. Volunteers and sponsors may go through earlier, and an express line will be set up to allow the volunteers and sponsors to get through the line quickly during Hospitality (Wear your volunteer T-Shirt and show your volunteer badge for quick recognition Entrees usually available for vegetarians – ask if you do not see any., Line will be open until midnight, or until the food runs out. Volunteers are welcome. See Gary Lillich if you want to help in Hospitality. Additional sponsors are allowed and improved Afterglow for Saturday and Thursday nights. Browse the wares in the vendor sales booths, take some merchandise to try out, shoot it, get some food in Hospitality, sit down, relax and eat while watching other fireworks in the sky during open shooting.
Lillich, Gary	Saturday Night Stragglers	Do you usually stay an extra night after PGI convention? Plane not leave until Sunday or Monday? Part of the cleanup crew, staying over Saturday night? Want more time to reminisce with fellow pyros? Started in 2006 from an idea germinated in '05 by Old Snorts Rob Berk and Gary Lillich, this will be the third annual Stragglers get-together. We will gather at 7 PM in a private room at a local restaurant for an evening of food, fellowship, and reminiscing. We will welcome sponsors to help cover part of the cost. Your only cost will be your food and drink. Let us know if you would be interested in attending; all PGI members are welcome. Email Andy Webb andy@captainboom.com, or Gary Lillich flashfw@yahoo.com. At convention, you may sign up for the Stragglers gathering in the seminars registration area.
Kantrud, Hal	The Golden Age of Chinese Firecrackers	The fourteen largest firecracker manufacturers, exporters, and importers with examples of the most popular brands of firecrackers used in the U.S.A. during the period 1933-1953.
Machunze, Morgan	Fireproof tube construction, super pyro glue, rocket heading construction - Proceeds Donated to Fireworks Defense Fund and the Junior Pyros	A hands on workshop where everyone learns how to roll your own rock hard fire resistant fireworks tubes for mortars, rockets, cakes, roman candles etc.. Where to get supplies, never buy high priced commercial ones again. Learn how to make your own low cost glue that can be used to bind stars, make tubes and even make quick match. Learn how to construct paper rocket headings with a nose cone. Best of all - You will be supporting our hobby both legally and through our younger generation. All proceeds go toward the fireworks defense fund and the junior pyros, Split 50/50. So please donate more if you can.
Machunze, Morgan	Jeweled Fountain Construction	A hands on workshop where everyone builds a jeweled fountain. This fountain along with the usual spray of sparks emits colored balls of light, or strobing flashes or loud crackling. Easily scaled up or down to your needs. This workshop will explain the compositions used, how to "load" the fountain, fusing and precautions. This is a fun class and does not require previous experience.
Machunze, Morgan	Multi shot cake construction	A hands on workshop where everyone builds a 3 – shot multi effect cake. Effects are colored balls, strobing lights, comets. Easily scaled up or down to as many shots as you need. This workshop will explain the compositions used, how to "load" the cake, fusing and precautions. A short discussion of re-loadable cakes will also be given if there is interest. This is a fun class and does not require previous experience.
Madziarczyk, Joe	Pyrotechnics from the Ground Up	This a basic fundamentals class on pyrotechnics geared for the beginner or first time convention attendee. The various pyrotechnic devices, theory, terminology, basic building styles, materials selection, and safety will all be discussed. There will be visual aids, actual examples, and handouts with the class ending in a Q & A session. Class notes are option and are available for \$10.
Medlin, Kurt	Tourbillion's	Tourbillions (also known as "geysers," whirlwinds," "revolving rockets," "table rockets," and "Artichokes"), are a very old type of spinning aerial firework that have been used in public displays at least as far back as the 1700s. Launched from a flat surface, they briefly spin on the ground before quickly rising into the air with a large canopy of sparks. In this seminar, participants will learn how to make a traditional 4-hole tourbillion and have the opportunity to make one in the 1-pound size (3/4 inch bore) that they can fire that evening.

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Name	Course Title	Course Description
Majdali, Steve	BP rockets for beginners	Learn the basics of black powder rockets. The course will cover the principles, the tools, their use, and the fun of making a rocket to test fire on the Open Rocket Line. Fee is \$3 for materials payable at the time of the workshop. No preregistration required.
Medlin, Kurt	BP rockets for beginners	Learn the basics of black powder rockets. The course will cover the principles, the tools, their use, and the fun of making a rocket to test fire on the Open Rocket Line. Fee is \$3 for materials payable at the time of the workshop. No preregistration required.
Steinberg, John	BP rockets for beginners	Learn the basics of black powder rockets. The course will cover the principles, the tools, their use, and the fun of making a rocket to test fire on the Open Rocket Line. Fee is \$3 for materials payable at the time of the workshop. No preregistration required.
McDanal, Micki	Junior Pyro Chain Fuse Effects	Learn to chain fuse Class "C" effects to create a Mini Show on a Board or and an exciting flight of spinning effects. This course is designed for Junior Pyros 7 to 10 years of age.
McDanal, Micki	Suberry's "C" Shell	Shell building basics made simple by following step by step instructions and using Class "C" items as inserted effects. Class size is a maximum of 50 participants. There are two classes, as is tradition, one for the ladies, and one for the gentlemen. Fee is \$15.00.
McDanal, Micki	Proximate Pyrotechnics in a Performance Venue	This course focuses on safety practices required while using proximate pyrotechnics to enhance performance arts. Types of proximate effects, their specific safety issues, site requirements, codes and regulations will be covered.
Nicholls, Andrew	Hollywood Special Effects	The course will demonstrate the following special effects. Breakaways and cryogenic fog. These are a basis of many movie and theatre effects. Also, be sure to ask Andy on many of the other special effects that he has done.
Sagaria, John	Sagaria's Pyrotechnic Choreography - Controlling the Burn	This seminar will concentrate on the devices themselves. No matter what method of firing you use, you will be able to apply the information provided. The seminar will discuss computer choreography but will not discuss methods of any single system. Some of the topics include: <ul style="list-style-type: none"> * The most important aspect of a device is not what you think * Working Ariel, Ground Devices * Set Pieces * Fronts, without them you cannot have a "great" show* Why fronts are not always "in front" * Ground Effects, Using all the ground, not just what is front of you * The most important time measurement = Duration * If you do not measure the firing site, don't start to set up * If you have not tested it, never use it * Specialty Cake Designs for total control * Modification of Devices in the Field * Modification of Devices at the Factory * Ignition Control and how it effects timing * Perfect Break times on Shells, what is perfect anyway? * Something always does not work perfect, lets look closely and see * Controlling a Finale, it is possible to have total control
Sklebar, Tom	Youth opportunities in PGI	Youth are our future adult members of PGI. I am inviting course instructors, safety team members, adults, youth and the Junior Pyros to a moderated discussion and brain storming session about the possibilities and limitations of youth participation in seminars and workshops, as well as developing guidelines for expansion of youth programs. Past PGI instructors have indicated that they would be interested and willing to develop workshops for youth members. All groups; safety, instructors, parents and youth need to have input to develop a dynamic and interesting program and this seminar will be the chance to do it.
Sklebar, Tom	Club Officer Round Table	I am inviting past, present and future club officers to a roundtable discussion about successes and pitfalls of regional and local fireworks clubs. The new PGI club handbook draft will be presented followed by a discussion and question and answer session.
Smith, Ben	6" Ball Shells for Beginners	Class participants will construct a basic 6" single petal ball shell with comet tail. Class will cover loading stars and break, pasting the shell, lifting, leadering, time fusing and attaching a rising comet. This class is designed for those who are first time ball shell builders.
Smith, Ben	16" shell construction	Watch as a 16" multi-petal ball shell is constructed. The class will be an informal observation of the building of a large caliber shell. The shell will be shot later in the week. Watch, learn, ask quesitons. See the building of one of the largest shells done right in front of you!

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Name	Course Title	Course Description
Smith, Paul	Pyrotechnic Chemistry - Factors Effecting Burn Rate	This seminar will focus on various factors that affect the burn rates of pyrotechnic compositions. We will discuss the theory and the physical chemistry of reaction rates. Strobe formula are good examples how these factors can influence the burn rate and increase or decrease the frequency. Additives and catalysts that have been used to influence different pyrotechnic formula will also be explored during this 2 hours session.
Smith, Wes	Pyrotechnic Chemistry - Factors Effecting Burn Rate	This seminar will focus on various factors that affect the burn rates of pyrotechnic compositions. We will discuss the theory and the physical chemistry of reaction rates. Strobe formula are good examples how these factors can influence the burn rate and increase or decrease the frequency. Additives and catalysts that have been used to influence different pyrotechnic formula will also be explored during this 2 hours session.
Steinberg, John Dr	Pyrotechnic Chemistry - Factors Effecting Burn Rate	This seminar will focus on various factors that affect the burn rates of pyrotechnic compositions. We will discuss the theory and the physical chemistry of reaction rates. Strobe formula are good examples how these factors can influence the burn rate and increase or decrease the frequency. Additives and catalysts that have been used to influence different pyrotechnic formula will also be explored during this 2 hours session.
Tiford, Arthur Dr	Junior Judges Workshop or How to be a real pyro judge for Junior PGI members.	You don't have to just sit in the grand stand and just look at the fireworks. You can learn how to be a real Pro Pyro Judge and do more than just look. You will be able to know which is best and what is wrong with the rest. You will learn what makes a great shell and what might as well be a dud. You will draw up some tools to use to help you be able to be a real PRO at ANY fireworks show. It is easy and really a lot of fun. You will put to the test what you have learned right here during the competitions every night! It is really a lot of fun being in the know about Pyro! Please bring a note pad and something to write with! You will want your notes for later!
Towne, Tami	Insurance Solutions for the Pyrotechnic Industry	Insurance topics to be discussed will include property, auto, liability, club liability and workers compensation
Widmann, Jim	Widmann's 24" Shell Hemi Creation	See 24" ball shell hemisphere's created before your eyes on the new 24" ball shell pasting machine. Learn interesting facts about 24" ball shells and about some of the shells planned to be fired later in the week.