



## FROM YOUR PRESIDENT

*Barbara Green*



We had a good turnout for the SFMS Executive Board Meeting in Augusta last March. It was so good to see so many new faces. Thank you for coming to represent your clubs.

We are happy to welcome the **Emerald City Rock & Gem Club** from Greenwood, SC to SFMS. They applied and we voted to bring them into our Federation. I understand they have a very nice museum there. If you are in that area, stop in and visit sometime. The address is The Museum, 106 Main St., Greenwood, SC 29646.

Two Chairperson positions were filled in Augusta. Kathy Morris agreed to take on the Bulletin Editors' Contest. Please e-mail her with your entries (klmorris45@hotmail.com). Jim Hazen has agreed to take on the Historian position. If you have anything that might be of historical interest for SFMS, please contact Jim (jim.hazen@akzonobel.com). Kathy and Jim are both from the **Tri-State Gem & Mineral Club**.

We have a respectable turnout of over 60 registrations for our June 12 William Holland SFMS Workshops. If you are planning to go, please get your applications in. We have a good lineup of classes and teachers. I hope to see many of you there this summer and fall.

Mark your calendars for coming to Greenville, SC for Labor Day weekend. We will have our Annual Meeting then. This is being co-hosted by the **Henderson County Gem & Mineral Society** and **Western South Carolina Gem & Mineral Society**. The Gem & Mineral Show in Hendersonville is one that I try to attend every year. It is put on at the same time as the Apple Festival in Hendersonville. You can't leave without trying some of the many ways apples can be served -- all delicious!

The Hendersonville club also sponsors **The Mineral & Lapidary Museum of Henderson County** ([http://www.historichendersonville.org/mineral\\_museum.htm](http://www.historichendersonville.org/mineral_museum.htm)). Information on hotel & guest speaker for the banquet will be coming soon.



## CARL'S EDITORIAL COMMENTARY

There are two lead articles this month. Starting on Page 4 is an article on the many uses of gold in minute quantity and small size (1-100 nanometer particle size). As mineralogical hobbyist, we need to know about this emerging technology. Second, on Page 6, is a how-to-do-it article on a different approach to placer gold collecting. This editor doesn't endorse any large-scale destruction of river moss, but he cannot find any legal constraints - yet!

Notice of our SFMS 2011 Annual Meeting Sept 3 & 4 is on Page 7 along with an application for advanced purchase of banquet tickets.

SFMS Workshop details start on Page 9. The June 2011 workshop at William Holland now has 48 student registrations.

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# THE SOUTHEAST FEDERATION OF MINERALOGICAL SOCIETIES, INC.



A Non-Profit, Non-Commercial, Non-Political Organization and Regional Federation of the American Federation of Mineralogical Societies

## PURPOSE:

To bring about a closer association of Clubs and Societies devoted to the study of Earth Sciences and the practice of Lapidary Arts and Crafts in the Southeast part of the United States.

## OBJECTIVE:

To cooperate with similar Federations to promote public interest in the Earth Sciences and the conservation of natural resources.

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Articles for the July 2011 *Lodestar* are due by June 25, 2011.

## UPCOMING SHOWS

**June 17-19, 2011:** Asheville, NC - Southern Appalachian Mineral Society. Asheville Gem Fest 2011, Pack Place, 2 South Pack Square (Downtown Asheville). Hours: Fri & Sat 10 AM - 6 PM, Sun 12 noon - 5 PM. Free admission, minerals, gems, jewelry, fossils, kids' activities, silent auction, door prizes. Contact (828) 254-7162 or [www.colburnmuseum.org](http://www.colburnmuseum.org)

**July 9-10, 2011.** Syracuse, NY. New York State Fairgrounds. AFMS Annual Meeting –Thursday AFMS-EFMS Cracker Barrel Social - Thursday EFMS Annual Meeting - Friday evening Huge show at the NY State Fairgrounds Sat. & Sun. EFMLS Auction – Saturday; Awards Banquet - Saturday Night; Breakfast with the Editors and Webmasters —Sunday morning

**Aug 12-14, 2011:** Pass Christian, MS - Harrison County Gem & Mineral Society. 35th Annual Harrison County Gem & Mineral Show, West Harrison Community Center, 4470 Espy Ave, Pass Christian, MS 39571. \$3 adults, children under 12 free with paid adult. Hours: Fri 12-7, Sat 9-6, & Sun 10-5. Contact Tomsey Westenmeyer 228-586-5279.

**Sept 3-6, 2011.** Hendersonville, NC—Henderson County Gem & Mineral Society. 29th Annual Gem, Mineral, Jewelry Show & Sale, Whitmire Activity Building, Lily Pond Road, Hendersonville.

**Sept 9-11, 2011:** Winston-Salem, NC. Forsyth Gem and Mineral Club. 40th Annual Gem and Mineral Show, Educational Building, Dixie Classic Fairgrounds, Winston-Salem#9 from 27th Street only. Hours: Fri & Sat 10-7, Sun 12-5. Contact W. A. Marion, Show Chair at 1163 Bear Creek Rd, Mocksville, NC 27028 or via e-mail at [MarionA1@yadtel.net](mailto:MarionA1@yadtel.net)

**Sept 30—Oct 2, 2011:**Dallas, NC. Gaston Gem, Mineral & Faceters Club. Show & Swap, Resource Center, 1006 Biggerstaff Park, Dallas/Cherryville Highway, Dallas. Free admission. Hours: 9-6 each day. Contact Showchair Jackay McDaniel at (704) 865-6748

**October 1-2, 2011:** Lexington, KY- Rockhounds of Central Kentucky. 21st Annual Gem, Mineral, & Jewelry Show and Sale, Kentucky National Guard Armory, 4301 Airport Road, Lexington. Adults \$1, children 6-12 50¢, max \$3/family. Scouts in uniform free. Hours: Sat 10-6, Sun 12-5. Contact show chairs Allen Ferrell (859) 277-2469 or Lamon Flynn (606) 726-9237.

**Dec 10-11, 2011:** Franklin, TN. Mid-Tennessee Gem & Mineral Society. Gem, Jewelry, Mineral, Fossil Show and Sale, Williamson County AgExpo Park, 4215 Long Lane, Franklin, TN 37064. Hours: Sat 9-6, Sun 10-5. Admission \$4 (2-Day Pass \$6.00), students 18 and under \$1, children under 12 free with adult. Show contacts: John Stanley, Show Chair, (615) 885-5704 or Steve Henegar, Dealer Chair, (615) 714-3194. Email contact: [show@mtgms.org](mailto:show@mtgms.org) <http://www.MTGMS.org/Show.htm>

### Please Note

To ensure your show is listed here, send a written notice to the Lodestar Editor: Carl Talbott, 216 Spring View Drive, Murphy, NC 28906 or e-mail [dtalbott@bellsouth.net](mailto:dtalbott@bellsouth.net). SFMS clubs/societies are also encouraged to register their event listings on the SFMS website at: [www.amfed.org/sfms](http://www.amfed.org/sfms).

## MINERIALS

### Colloids and Nanoparticles of Gold

By Carl Talbott, Lodestar Editor

Colloidal and nanoparticle gold have been used since ancient times and can be found in treatment of alternate Ayurvedic medicines. The Ayurvedic system of medicine is the traditional medicine system of India, and the use of gold nanoparticles in medicine is described in The Vedas, the oldest writing available in world. The use of gold nanoparticles is also cited from fifth century Rome. Colloidal gold is gold in a suspension (say of water), and when the particle size is measured in nanometers regardless of in a solution or not, we use the term 'nanoparticle'.

Nanotechnology is a catch-all phrase for materials and devices that operate at the nanoscale. In the metric system of measurement, "Nano" equals a billionth and therefore a nanometer is one-billionth of a meter. References to nano materials, nanoelectronics, nano devices, nanofabrics, nanogels and nanopowders simply mean the material or activity can be measured in nanometers. To appreciate the size, a human red blood cell is over 2,000 nanometers long, virtually outside the nanoscale range! In recent years, interest and research in the applications of gold nanoparticles has been rapidly growing. Some of the applications are described below.

Gold on the nanoscale is a unique material. First and foremost, it is not gold-colored, but a deep crimson red or light blue (depending on the size and shape of the particles). This dramatic color change is due to the minute particles of gold interacting with light differently to bulk gold. The particles themselves retain many of the characteristics of bulk gold (for example their biocompatibility and resistance to corrosion). They also develop other intriguing properties such as reactivity (making them useful as catalysts in chemical reactions).

These particles have already found practical use in a range of fields. Various **diagnostic devices** rely on their unusual optical properties; examples include the First Response pregnancy testing kit and the Merck Singlepath assay (which is used to detect salmonella). The US-based company Pointcare Technologies has developed and marketed a system based on gold nanoparticles that measures a key indicator in the progression of HIV.

Gold nanoparticles have real promise as **anticancer agents**. When irradiated with light, gold nanoparticles become hot quickly, hot enough to generate explosive microbubbles that will kill nearby cancer cells via a physical process known as the photothermal effect. To boost this approach, researchers at the University of California, Los Angeles, have developed a method for creating supramolecular assemblies of gold nanoparticles that function as highly efficient photothermal agents of a size designed to optimize their delivery to tumors. Investigators used the 118 nanometer gold complexes and showed that when irradiated with a laser beam, the temperature of the assemblies rapidly soared above 374° C, the temperature at which explosive microbubbles form.

To test how efficiently these assemblies could kill cancer cells, researchers added them to brain tumor cells, irradiated them with light, and then measured how many cells had been killed within two hours. As a control, the researchers repeated the experiment with cells lacking the receptor for the targeting agent they added to the nanoparticles. Results from this experiment clearly showed that the targeted nanoparticles readily killed the targeted tumor cells but not the cells lacking the targeted receptor. Additional experiments showed that 2-nanometer gold nanoparticles were not nearly as effective as the supramolecular assemblies at killing the targeted cells.

Gold used to help treat prostate cancer is solid 24-carat gold that has been shaped into tiny rods. These rods are about the same size as a single grain of rice. Cancer cells are known to contain a large amount of a protein called Epidermal Growth Factor Receptor (EGFR). Because of this, the gold rods are covered in cancer

antibodies that bind with EGFR so that they can serve as markers showing exactly where the prostate cancer cells are. The rods are also grooved so that they can easily attach to prostate tissue if the cancer is successfully eradicated.

Scientists from the Indian Institute of Technology patented technology to use gold and silver nanoparticles to filter endosulfan, malathion and chlorpyrifos pesticides from water. The technology exploits the ability of the nanoparticles **to bind residual pesticides** from flowing water through adsorption. In lab experiments conducted during 2003 and 2004, IIT scientists discovered that gold particles of diameter 10 to 20 nanometres and silver particles of diameter 60 to 80 nanometres had the tendency to adsorb pesticides. They found out that the nanoparticle solutions changed color while interacting with water that had residual pesticides.

Nanorama-Gold toothpaste is a cutting edge toothpaste in which innovative nanotechnology is applied. It contains pure nano-sized gold that is highly effective in disinfecting the bacteria in your mouth. It also contains acid-tocopherol, hydrated silica, fluorine-phosphoricacid-sodium, etc. Nanorama toothpaste is more effective in cleaning and improving the aesthetic appearance and health of teeth. This toothpaste is more effective in preventing plaque formation, cavities and gingivitis. It promotes good oral hygiene and can aid in the removal of stomatitis, and elimination and/or masking of halitosis.

Neiman Markus markets 'Chantecaille', a nano-gold energizing cream for only \$420 for a 1.7 oz jar.

"Nanoparticles of 24-carat gold are bound to silk microfiber a natural protein that is moisturizing, antioxidant, and anti-inflammatory. Through nanotechnology these elements reach the cellular level where they act as the ultimate healing and preserving force. A powerful, healing breakthrough, this extraordinary cream consistently replenishes skin's energy using nanotechnology to safely deliver the power of pure gold. By promoting cell metabolism and stimulating collagen production, skin retains optimal health and youthful vitality." [Editor's comment: this is what the ad says word-for-word. Buyer beware!]

Japanese researchers developed an innovative infrared photo detector exploiting 'plasmon resonance' at the surface of gold nanorods, which enhances the density of photoelectrons excited over the Schottky barrier. This technology shows potential as the basis for the development of high efficiency infra-red photodetectors for optical communications systems. Devices used for the detection of light and other forms of electromagnetic energy include calorimeters, superconducting devices, and photodiodes used in optical communications systems.

Aside from the excitement of these new 'nano' products and capabilities, there may be reasons for pause. For example, elements at the nanoscale behave differently than they do in their bulk form,. There's a concern that some nanoparticles could be toxic. Some doctors worry that, since nanoparticles are so small, they could easily cross the **blood-brain barrier**, a membrane that protects the brain from harmful chemicals in the bloodstream. If we plan on using nanoparticles to coat everything from our clothing to our highways, we need to be sure that they won't contaminate and poison us.

## A Few Suggestions About Finding and Processing Gold Bearing Moss

Copyright © 1995 - Steven L. Katz

1. Focus your attention on moss that is in the high water zone of a river or stream -- larger rivers seem to produce more moss and more moss with gold. The moss appears to trap dirt as part of its survival process when water is flowing over it -- usually during spring high water.
2. Moss and small plants like to grow into crevices and cracks in bedrock -- make sure that you thoroughly clean out each crevice below the moss. Use the wire brush to loosen dirt clinging to the face of the rock underneath the moss.
4. Stringy moss which does not contain much dirt is not likely to have trapped much gold either.
5. The heavier materials, including gold, will tend to settle to the bottom of the vac's bucket due to the action of the air swirling around in the bucket.
6. My tests suggest that there is more gold in the dirt underneath the moss than in the moss itself.
7. The dirt in large amounts of moss can be worked loose by putting the moss with water in a large bucket (15 gal), squeezing the moss out as if it were a sponge and then running the moss through 4 and 8 mesh sieves -- then the dirt can be processed in a mini sluice such as the McCann Microsluice (tm) or in a small high banker -- my experiments with the McCann unit suggest that one pass through the sluice will result in 95-99% recovery -- hardly worth a second pass. Please try to dump the silty, muddy water in a settling hole and not directly in the river.
8. After you have gotten your first bucketful of material in a new area, pan it out to make sure that the moss that you are working with really does contain gold -- gold bearing moss, when present at all, is usually uniformly gold rich along a section of river -- but sometimes mother nature will pass an area by!!!
9. If you have a large amount of material, and it is convenient to do so, take the raw material home for processing -- in the long run you will gather more material (and gold) than if you stop periodically to pan out the material.
10. A large agitator such as an old washing machine may be a better and easier way to get the gold and dirt out of the moss -- but I haven't come up with a design yet -- if you do, and don't mind sharing the design of your solution, **please drop me a note.**

Thanks to Bill Westcott, Chuck Mitchell and Jeri Walsh in the prospecting section of the Outdoors forum of CompuServe for their assistance and critiques of this faq. Comments and suggestions are welcome and can be addressed to me at [SteveFrog@aol.com](mailto:SteveFrog@aol.com). This faq is copyright 1995 by Stephen L. Katz. You may distribute this material freely, but in its entirety, provided no charge is made except for the cost of copying and distribution, and provided proper attribution is made to the author. All other rights are reserved to me.

Remember, gold is where you find it!!! Good Luck.  
Steve Katz

[Editor's Comment:: Recalling the opening lines of Robert Service's poem The Cremation of Sam McGee, "There are strange things done in the midnight sun by the men who toil for gold ...", surely harvesting river moss for its gold content is one such strange thing. I think I'll try it!]

## 2011 Southeast Federation of Mineralogical Societies Annual Meeting September 3 & 4, 2011

The 2011 annual SFMS meeting is being co-hosted by Henderson County Gem & Mineral Society and Western SC Gem & Mineral Society (WESCAGEM).

The Federation meetings, Cracker Barrel, Annual Meeting, Annual Banquet, and Newsletter-Website -Articles Awards Breakfast will be held at the host hotel. The host hotel for the meetings and banquets is the Clarion Inn & Suites, 50 Orchard Park Dr., Greenville, SC 29615. Call 864-254-6383 and request the rate for the Southeastern Federation Mineral Society. The rate will be \$62.00/room (\$72/queen & king). Full breakfast is provided. Any problems or concerns, ask to speak with Claudia Folley.

The Annual Banquet will be Saturday evening at 7:00 p.m. The guest speaker will be the curator of the Clemson Mineral Museum. Pre-registration banquet cost is \$15.00 per person; without pre-registration the tickets will be \$20.00 per person. Cut off for pre-registration is August 23, 2011.

The Annual Meeting is in conjunction with the Annual Henderson County Gem & Mineral Society Show in Hendersonville, NC - 29th Annual Gem, Mineral, Jewelry Show and Sale. The show will be at the Whitmire Activity Building, Lily Pond Road. A map will be provided in your Registration Package. The dates for the show are Sept. 3-6/2011.

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To pre-register for the banquet please fill out the following form and return with payment by check made out to the WESCAGEM (Western SC Gem & Mineral Society. Mail to: **Kerri Wetzel, 5010 Sunset Drive, Easley, SC 29642.**

Names for banquet tickets \_\_\_\_\_

# of tickets \_\_\_\_\_ @ \$15.00 each

Mailing address \_\_\_\_\_ City \_\_\_\_\_

State \_\_\_\_\_ Zip Code \_\_\_\_\_

Phone number \_\_\_\_\_

**BE SAFE – BE WELL**

Don Monroe &amp; Linda Behr - Safety Committee

**Where to Go During an Earthquake**

The article below was originally written to deal with the dangers of earthquakes but is certainly appropriate when there is a barrage of tornadoes such as much of our country experienced during recent days. The Southeast has seen major tornadoes that have resulted in loss of life and destruction of property. Last night my wife, my dog and I took refuge in our basement after learning that a large tornado was passing less than ten miles from our house.

**An article attributed to Doug Copp**

Remember that stuff about hiding under a table or standing in a doorway? Well, forget it! This is a real eye opener. It could save your life someday. My name is Doug Copp. I am the Rescue Chief and Disaster Manager of the American Rescue Team International (ARTI), the world's most experienced rescue team. The information in this article will save lives in an earthquake.

I have crawled inside 875 collapsed buildings, worked with rescue teams from 60 countries, founded rescue teams in several countries, and I am a member of many rescue teams from many countries. I was the United Nation's expert in Disaster Mitigation for two-years, and have worked at every major disaster in the world since 1985, except for simultaneous disasters.

The first building I ever crawled inside of was a school in Mexico City during the 1985 earthquake. Every child was under its desk. Every child was crushed to the thickness of their bones. They could have survived by lying down next to their desks in the aisles. It was obscene—unnecessary.

Simply stated, when buildings collapse, the weight of the ceilings falling upon the objects or furniture inside crushes these objects, leaving a space or void next to them — NOT under them. This space is what I call the 'triangle of life'. The larger the object, the stronger, the less it will compact. The less the object compacts, the larger the void, the greater the probability that the person who is using this void for safety will not be injured. The next time you watch collapsed buildings on television count the 'triangles' you see formed. They are everywhere.

**Tips for Earthquake Safety:**

- 1) Most everyone who simply 'ducks and covers' when buildings collapse are crushed to death. People who get under objects, like desks or cars are crushed.
- 2) Cats, dogs and babies often curl-up in the fetal position. You should too in an earthquake. It is a natural safety/survival instinct. You can survive in a smaller void. Get next to an object, next to a sofa, bed, or large bulky object that will compress slightly but leave a void next to it.
- 3) Wooden buildings are the safest type of construction to be in during an earthquake. Wood is flexible and moves with the force of the earthquake. If the wooden building does collapse, large survival voids are created. Also, the wooden building has less concentrated crushing weight. Brick buildings will break into individual bricks. Bricks will cause many injuries but less squashed bodies than concrete slabs.
- 4) If you are in bed during the night and an earthquake occurs, simply roll off the bed. A safe void will exist around the bed. Hotels can achieve a much greater survival rate during earthquakes by posting a sign on the back of the door of every room telling occupants to lie down on the floor next to the bottom of the bed during an earthquake.
- 5) If an earthquake happens and you cannot easily escape by getting out the door or window, then lie down and curl-up in the fetal position next to a sofa or large chair.
- 6) Most everyone who gets under a doorway when buildings collapse are killed. How? If you stand under a doorway and the doorjamb falls forward or backward, you will be crushed by the ceiling above. If the door jam falls sideways, you will be cut in half by the doorway. In either case, you will be killed!
- 7) Never go to the stairs. The stairs have a different 'moment of frequency' (they swing separately from the main part of the building). The stairs and remainder of the building continuously bump into each other until structural failure of the stairs takes place. People who get on stairs before they fail are chopped up by the stair treads - horribly mutilated. Even if the building doesn't collapse, stay away from the stairs. The stairs are a likely part of the building to be damaged. Even if the stairs are not collapsed by the earthquake, they may collapse later when overloading by fleeing people. They should always be checked for safety, even when the rest of the building is not damaged.
- 8) Get near the outer walls of buildings or outside of them if possible; it is much better to be near the outside of the building rather than the interior. The farther inside you are from the outside perimeter of the building the greater the probability that your escape route will be blocked.
- 9) People inside of their vehicles are crushed when the road above falls in an earthquake and crushes their vehicles which is exactly what happened with the slabs between the decks of the Nimitz Freeway. The victims of the San Francisco earthquake all stayed inside of their vehicles. They were all killed. They could have easily survived by getting out and sitting or lying next to their vehicles. All the crushed cars had voids 3 feet high next to them except for cars that had columns fall directly on them.
- 10) I discovered, while crawling inside of collapsed newspaper offices and other offices with lots of paper that paper does not compact. Large voids are found surrounding stacks of paper.

Spread the word and save someone's life ...

**2011 SFMS WORKSHOP CLASS SCHEDULE**

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The intermediate and advanced classes listed with an asterisk (\*) require some prior experience by the student. Experience in a class provided by your local club, Workshop class, or self study may be enough. If you're interested in one of these classes, please do not exclude yourself without contacting the instructor first.

**SESSION ONE - WILLIAM HOLLAND  
SUNDAY, June 12-18, 2011**

Beading, Seed	Barbara Green
Cabochons	Richard Shackleton
Chain Making	Dee & Bill Conybear
Enameling	Bob Mattingly
Faceting	Bill Roberts
Lampwork	Ann Royer
Mineral ID	Scott Forward
Opals	Sarah Lee Boyce
Silver I	Don Roberts
Silver II	Vicky Prillaman
*Silver Filigree	Stafford/Warrick
Wire I	Velima Lawson

**SESSION TWO - WILDACRES  
MONDAY, August 22 - 28, 2011**

Beading, Seed	Barbara Green
Cabochons	Pat Davis
Cold Connections	Kathy Morris
Faceting	Steve Hillenbrand
*Fused Glass, Advanced	Rich Dillon
Gem ID	Mary Lou Kick
*Metalsmithing - Advanced	Jeff Shears
Silver I	Shannon Stafford & Annette Gibney
*Stone Setting	Don Roberts
Wire, Beginning	Velima Lawson

**SESSION THREE - WILDACRES  
MONDAY, September 12 - 18, 2011**

Cabochons	Anita Westlake
Casting	John Iacullo
Chain, Beginning	Kathy Morris
Lampwork	Linda White
Mineral ID	Scott Forward
Silver Cold Connection	Charlotte Caughman
*Silver, Filigree	Shannon Stafford & Annette Gibney
Wire, Beginning	Bonita Harris

**SESSION FOUR - WILLIAM HOLLAND  
SUNDAY, October 9-16, 2011**

Bead Weaving	Ron Midkiff
Cabochons	Anita Westlake
Chain Making	Dee & Bill Conybear
Enameling	Lynda Williams
Faceting	Mary Lou Kick
Fused Glass	Addy DePietro
Jadeite Bas-Relief Carving	Bill Smith
Lampworking	Cindy Reed
Opals	Joe DePietro
*Silver Filigree	Stafford/Warrick
*Southwest Silver	Dan Haga
*Silver II	Vicki Prillaman
Wire I	Judy Peppers

**2011 SFMS WORKSHOP REGISTRATION FORM**

<b>SESSION:</b> ◇ William Holland June 12-18      ◇ Wildacres August 22-28 (check one)   ◇ Wildacres September 12-18   ◇ William Holland October 9-15
<b>ACCOMMODATIONS:</b> ◇ Lodge              ◇ Day Student              ◇ Campground (Wm Holland only)

# 1 NAME \_\_\_\_\_  
 SFMS SOCIETY/CLUB (spell out) \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ ST\_\_ ZIP\_\_\_\_\_ Email \_\_\_\_\_  
 Home Phone (\_\_\_\_) \_\_\_\_\_ Cell Phone (\_\_\_\_) \_\_\_\_\_  
 Have you attended any other SFMS workshops? \_\_\_\_\_  
 Do you want to be placed on standby if your class is filled when we get your application? Y N

#2 (Spouse/Friend) NAME \_\_\_\_\_  
 (If club affiliation, address and phone info is different than above, please list on the back.)  
 Have you attended any other SFMS workshops? \_\_\_\_\_  
 Do you want to be placed on standby if your class is filled when we get your application? Y N

<b>Single applicants only:</b> Do you have someone you want to share a room with? If yes, whom? _____ Age Group (used to determine a compatible roommate) 20-30 31-41 42-52 53-63 64-74 74 & up Are you a smoker? Y N   Are you an early riser? _____ or a night owl? _____
--

<b>Special Needs:</b> Do you need a <b>handicap</b> room? Y N   Can you negotiate stairs? Y N   (elevator at Wm Holland only) <b>Dietary:</b> Diabetic _____ Other _____ Anything else we need to know? (i.e. snore loudly, can't walk up hills, etc.) _____ _____
--

<b>Campers:</b> (Wm Holland only) Type _____ Length _____ (40 ft. max.)
---

**Class Selection**

**\*\*\*\* PLEASE LIST ALTERNATES\*\*\*\***

First Choice	1 <sup>st</sup> time taking class?	Second Choice	Third Choice
Student #1	Y N	Y N	Y N
Spouse #2	Y N	Y N	Y N

**Workshop Tuition**

NOTE: You are encouraged to pay the full amount at registration time.

However, a \$25 non-refundable deposit per person must accompany your registration. If you send a \$25 deposit the remaining balance is due one month before the beginning of class.

- \* Tuition Cost per Person:
- \* William Holland:
  - \* \$310 double occupancy or \$470 single.
  - \* \$140 day student or camper.
- \* Wildacres:
  - \* \$330 double occupancy or \$490 single.
  - \* \$160 day student.
- \* Non members add \$50.00 to all Tuition fees

**William Holland Campsite Fee:** \$120 per week. No meals are included for day students or campers. They are available from and payable directly to the facility.

**Cancellation Policy:** There is a non-refundable \$25 administration fee. Other refunds are at the discretion of the director and Education Chair.

**Materials/Class Fees:** THE INSTRUCTORS MAY CHARGE A MATERIALS FEE FOR THEIR CLASSES. THIS MATERIALS FEE IS NOT PART OF THE WORKSHOP TUITION.

**Mail Application & Deposit** to appropriate workshop Registrar.

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**Wildacres Registrar**

David & Leslie Wayment  
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