

# LENS LINES

The Official News Letter of the Arundel Camera February, 2000

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## Calendar of Events

Feb. 2 Harry Tarzian

Feb. 9 Share Your Photo

Feb. 16 Cheryl Pickerell

Feb. 23 Slides, [Color Prints](#) and B/W competition

**Feb 2 Speaker**, Harry Tarzian will speak about Black and White Photography

**Feb 16 Speaker**, Cheryl Pickerell from Stock Connections will talk about selling photographs through a stock photography agency.

**SNOW, SNOW, SNOW** Due to the inclement weather this newsletter will be shortened. Save all that hard work you did for next month's competition night.

**Feb 9 Program:** Bring in several of your photographs to share with the other members of the club. You may submit slides, large prints or small prints to be passed around. You may have your photos critiqued if you wish.

**Feb 23 Contest:** We will be holding our monthly contest with competitions in slides, color prints and black and white prints. There are two [classes](#) in each, unlimited and novice. Remember, you may enter up to four entries in each category. **New Process Could Revolutionize Photography**

## Chemical Makes Film 10 Times More Sensitive

Scientists say they have found a way to produce photographic film that is 10

"A real breakthrough," said Richard Hailstone, a scientist at the Rochester (N.Y.) Institute of Technology.

A camera focuses light from an object onto film, which is made of plastic with a chemical layer. The film uses two kinds of light-sensitive crystals halide crystals and silver crystals to produce an image.

When a bit of light, called a photon, strikes one Of the halide crystals it breaks an electron loose. Ideally, that electron combines with a nearby silver crystal.

Later, when the film is placed in a developer, the silver crystals that picked up electrons darken and stick to the plastic while the rest are washed away. The result is a negative.

One photon of light cuts loose one electron, but most of the time the electron quickly returns to the halide instead of combining with the silver. As a result, most film is not very efficient. In dim light, long exposure times are needed to capture enough photons to create an image. The French researchers added a chemical called formate to the crystals. That kept the loose electrons from recombining with the halide crystals. So every electron knocked loose by a photon was captured by a silver crystal.

Other chemicals can keep electrons from recombining with the halide crystals, but they ruin the film's ability to produce an image.

The chief researcher, Jacqueline Belloni, said her technique could be used to make images with greater clarity or to take pictures in very low light without a flash.

The new film could widen the gap in picture quality between conventional photography and no-film digital photography, which has been growing in popularity.

The Arundel Camera Club now has a Web Page. The URL is

< <http://start.at/acc> > The web page contains text of newsletters, bylaws, contest rules and the previous month's winners. There are also links to web pages for individual members and other useful sites.

**Theme Contest for March, 2000**  
**Slides - Young and Old Together**

times more sensitive to light and that could make true-to-life pictures of candle light dinners possible without a flash or muted colors.

Agfa, the European film manufacturer that sponsored the study and holds the patent, would not comment on when the film might become available commercially. Researchers acknowledged that more work is needed to determine how well it can reproduce certain colors.

If the approach works, it could revolutionize photography, improving on the basic process that has been around since the 1840s.

In a study published in today's issue of the journal *Nature*, researchers at the University of Paris said they have managed to capture every bit of available light on film by adding a simple chemical.

## Prints - Low-Light Photographs

**The Arundel Camera Club** meets every Wednesday evening when school is in session. We meet at 7:30 and usually end around 9:00 P.M. at Severna High School, 60 Robinson Road, Severna Park in room G144. Meetings are open to the public, but only dues paying members may enter competitions. Annual dues are \$15.00 per adult, \$7.50 per full-time student. If a second family member joins the club, the second member's dues are discounted 50% - \$7.50.

For further information, feel free to call any of the club's officers:

President Howard Penn (410)-544-1742

VP Programs Karl Porter (410)-987-4196

VP Contest Doug Wise (410)-573-0187

Treasurer Diana Listmann (410)-647-0937

Newsletter Frank Maminski (410)-766-3698

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