Beyond the Bulb









LIGHT: Beyond the Bulb (LBTB) is a robust online repository of high-quality, beautiful images—accompanied by short, informative and engaging captions—that convey some of the amazing things light can do.

The 75 images, ranging in topic and scale from microbiology to astronomy, were gathered from calls to scientific communities and photographers as well as targeted searches so that a broader range of the electromagnetic spectrum could be covered. The peerreviewed multidisciplinary content creates connections with physics, optics, photonics, atmospheric and earth sciences, astrophysics, etc.

The LBTB team has worked with individuals and organizations as well as both private and public institutions. Librarians, teachers, parents, scientists, community organizers, artists, science societies, etc. As of December 29, 2014, over 40 locations are signed up to host an LBTB exhibit, from Paris to Puerto Rico, and from Venezuela to Victoria, Canada. Location types will include libraries, schools, malls, parks, airports and science centers.

US highlights include a 40-image light-weight bilingual (English/Spanish) exhibit sponsored by the Chandra X-ray Center that will travel to over a dozen public locations, a 20-image portable exhibit sponsored by SPIE that will travel to numerous scientific, professional and public locations, and a 50-image semi-permanent exhibit at the highly trafficked O'Hare International Airport in Chicago that will be viewed by millions of travelers. Exhibits will launch in January at the AAS meeting in Seattle and at the IYL2015 Opening Ceremonies in Paris, and continue throughout 2015. See the growing list of venues at: http://lightexhibit.org/iylexhibits.html

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Processors: To demonstrate moon phases – st-up as the first activity. Use the same light and screen st-up as the first activity. Software the software postel exposing while screen (b) the Same goals in the screen on either side of the a software the software postel exposure while screen. (b) the Same goals into a holder using an orange dip. Pisor the Earth between the light (The Sun') and the screen. Turn on the Sun and revolve the mon on a side screen what parts of the "Moon" are illuminated when it's at different angles compared to the "Sun."



Supporting materials created for exhibit hosts include visual how-to guides, simple educational hands-on activities, video, multimedia and additional free, printable informative materials. You can find them here: http://lightexhibit.org/handouts.html

January 1st will see the launch of the "Light Image of the Day" web feature that will continue throughout 2015. Social media promotion and web site resources will continue to be added over the course of the project.

Language translations are in progress in several languages by our volunpeer networks including Spanish, French, Portuguese, Brazilian Portuguese, Afrikaans and others.

For the astronomy community, connections will be made with the Hubble 25th anniversary, with anniversary images being included in the online repository and the Chandra traveling exhibit. Chandra will also be releasing 5 new multiwavelength images to celebrate IYL in January, some of which will be on the web site and in the exhibit. LBTB handout and web site materials were reviewed by the NASA Product review and ranked outstanding with recommendation for broad distribution.

Together with SPIE (the international society for optics and photonics), the Chandra X-ray Center/Smithsonian Astrophysical Observatory are leading Light: Beyond the **Bulb** for the International Year of Light 2015 (IYL2015). Light: Beyond the Bulb is a cornerstone project for the International Astronomical Union. IYL2015 was declared by the United Nations and is supported by UNESCO.

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