



# Agency Health Physics

## Kurt Geber, CHP

2008 NASA Health Physics Conference  
May 16, 2008



# NASA regulates the use of Class 3b and 4 lasers.

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## Laser

From Wikipedia, the free encyclopedia

*For other uses, see [Laser \(disambiguation\)](#).*

A **laser** is an electronic-optical device that emits **coherent** light **radiation**. The term "laser" is an **acronym** for *Light Amplification by Stimulated Emission of Radiation*.<sup>[1]</sup> A typical laser emits light in a narrow, low-**divergence** monochromatic (single-coloured, if the laser is operating in the **visible spectrum**), beam with a well-defined **wavelength**. In this respect, laser light is in sharp contrast with such **light sources** as the **incandescent light bulb**, which emits light over a wide area and over a wide **spectrum** of wavelengths.

The first working laser was demonstrated on **May 16, 1960** by **Theodore Maiman** at **Hughes Research Laboratories**.<sup>[2]</sup> Recently, lasers have become a multi-billion dollar industry. The most widespread use of lasers is in **optical storage** devices such as **compact disc** and **DVD** players, in which the laser (a few millimeters in size) scans the surface of the disc. Other common applications of lasers are **bar code** readers, **laser printers** and **laser pointers**.

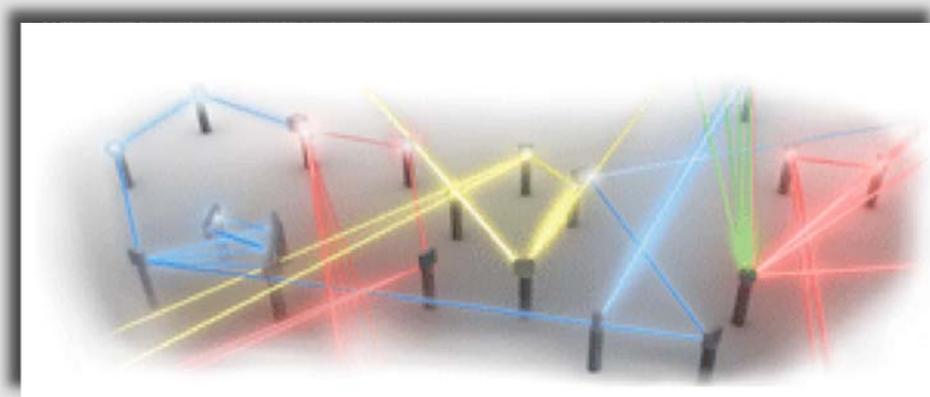




# LASER

*Light  
Amplification by  
Stimulated  
Emission of  
Radiation*

First Successfully Demonstrated  
48 Years Ago Today



Thanks for remembering Google.

# Resources for the Health Physicist on the NASA Occupational Health Website





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 The Plan describes more than 300 critical actions, many of which have already been initiated, to address the threat of pandemic influenza.  
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**Interregional spread of influenza**  
 Researchers at the NIH conclude that the regional spread of annual influenza epidemics throughout the United States is more closely connected with rates of movement of people to and from work than with geographical distance or air travels.  
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**Lithium Battery Safety**  
 Lithium batteries used in work activities have the potential to cause injury. Read more on DOE Lessons Learned.  
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**Google to Store Patients' Health Records**

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# NASA Policy: Safe Use of Lasers Outdoors





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OCHMO



OFFICE OF THE CHIEF HEALTH AND MEDICAL OFFICER

Welcome

The NASA Chief Health and Medical Officer (CHMO) is Dr. Richard Williams. The Office of the Chief Health and Medical Officer has personnel at NASA Headquarters in Washington, DC and at a tenant office at Kennedy Space Center (KSC) in Florida.

NASA Occupational Health consists of approximately 400 Occupational Health professionals distributed across 14 NASA Centers and Facilities. These professionals provide comprehensive support to a diverse, highly technological workforce of over 75,000 civil servant and contractor employees involved in human exploration and development of space aeronautics research, and earth and space science activities.

NASA OCHMO ARTICLES IN US MEDICINE MAGAZINE

**2008 January**  
[NASA Medicine Focuses On Successful Human Space Flight](#)

**2007 January**  
[NASA Working With Researchers To Establish Health, Medical Policies For Space Exploration](#)

**2006 February**  
[NASA Claims IOM Report On Health Program Incomplete](#)

**2005 January**



OCHMO  
COMMUNICATIONS

**OH Disciplines**

- + Employee Assistance
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### OCHMO OCCUPATIONAL HEALTH RELATED COMMUNICATIONS

**2008**

- [NASA Interim Directive \(NID\): Health Services for International Travel or Assignment](#) (Apr)
- [2008 NASA Occupational Health Conference Invitation](#) (Mar)
- [2008 NASA Health Physics Conference Invitation](#) (Feb) ←

**2007**

- [2007 NASA Occupational Health Conference Invitation](#) (Apr)

**2006**

- [2006 NASA Occupational Health Conference Invitation](#) (Apr)
- [NASA Avian Influenza Preparedness and Response Memo and Informational Packet](#) (Feb)

**2005**

- [Health Alert: Avian Influenza](#) (Oct)
- [Safety, Health and Return-to-Employment \(SHARE\) Initiative](#) (Feb)
- [2005 NASA Occupational Health Conference](#) (Feb)
- [National Wear Red Day is February 4, 2005](#) (Jan)
- [Statement of Work letter](#) (Jan)
- [NASA OH Model Statements of Work](#) (Jan)

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# OCHMO Establishes NASA Policy August 2004

The screenshot shows a website interface with a left sidebar and a main content area. The sidebar contains links for '+ Health Resources', '+ Traveler's Health', a '2008 HealthierYou' banner, and '+ 2008 Calendar'. The main content area lists health resources by year: 2004, 2003, 2002, and 2000. A blue arrow points to the link for 'Outdoor Laser Policy letter (Aug)' in the 2004 list.

**2004**

- [Holiday Stress](#) (Dec)
- [Influenza Immunization Update](#) (Oct)
- [Influenza Immunizations During the 2004-2005 Flu Season](#) (Oct)
- [2004 HealthierFeds Physical Activity Challenge](#) (Oct)
- [Outdoor Laser Policy letter](#) (Aug)
- [Outdoor Laser Policy](#)

**2003**

- [Medical Quality Assurance Program Memo](#) (Aug)
- [Medical Quality Assurance Program](#) (Aug)
- [Critical Incident Stress Management Letter](#) (May)
- [Critical Incident Stress Management Guidelines](#) (May)
- [NASA Application of the Health Insurance Portability and Accountability Act \(HIPAA\)](#) (Jun)
- [Recognition of National Nurse's Week and NASA Nurses](#) (May)
- [2003 NASA Occupational Health Conference](#) (Mar)

**2002**

- [Legionella Bacteria Contamination of Potable Water Letter](#) (Jul)

**2000**

- [Guidance for Implementing an AED Program Letter](#) (Jul)
- [Guidelines for Implementing a Center AED Program](#) (Jul)

**USA.gov**  
Government Made Easy

+ Freedom of Information Act  
+ NASA Privacy Statement, Disclaimer,  
and Accessibility Certification

**NASA**  
Editor: Frankie J. Ramos  
NASA Contact: Alan Gettleman  
Updated: March 10, 2006

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# Centers coordinate efforts directly with other interested government agencies



National Aeronautics and  
Space Administration  
**Office of the Administrator**  
Washington, DC 20546-0001



August 26, 2004

TO: Distribution  
FROM: NASA Designated Agency Health and Safety Official  
SUBJECT: Outdoor Laser Use

Dr. Richard Williams, MD  
is OSHA's Designated Agency  
Health and Safety Official

NASA laser usage has increased over the years. Inter-agency laser safety and high-intensity light use issues between NASA and Department of Defense (DoD)/Federal Aviation Administration (FAA) are currently handled at the Center level. Individual Centers coordinate with regional FAA representatives and the U.S. Space Command in Colorado Springs, Colorado.

Controls are needed to assure uniform implementation of requirements and guidelines Agency-wide, and to assure that inadvertent damage from NASA laser and high-intensity light



## Key elements of outdoor laser policy

ANSI Std incorporated  
by reference

### **Outdoor Lasers:**

Unless otherwise noted, all ANSI Z136.6, *American National Standard for Safe Use of Lasers Outdoors*, recommendations are incorporated by reference as requirements, and will take precedence over any less rigorous requirement in this document.

Applies only to  
hazardous emissions

Outdoor laser use covered by this policy covers all uses of Class 3b and 4 lasers; whether, ground based, air based, or space based, where the direct beam extends indefinitely, or the insertion of a mirror into the output beam path could create a specular reflection that extends indefinitely. For more information see the final Office of Aviation and Transportation Security (OATS) Laser Pointers: Their Potential Affects on Vision and Aviation Safety, DOT/EASA/AM-01/7.

Requires written  
procedures

Establishes LSO authority

All laser beams propagated in outdoor areas shall follow written procedures that are approved by the Center Laser Safety Officer (LSO). The Center LSO has the authority to invoke the

# Coordination and Notifications



and shall be followed by either email or fax written report. If the Agency Environmental Health Officer is unavailable, notification shall be to the OCHMO office in Washington, DC, (202) 358-1794 or (202) 358-2329.

FAA POCs

The following steps shall be taken prior to outdoor laser use:

- Centers shall coordinate directly with regional FAA points of contact using the protocols found in FAA Order 7400.2E, Procedures for Handling Airspace Matters, Part 6. MISCELLANEOUS PROCEDURES, Chapter 29. OUTDOOR LASER OPERATIONS
- Additionally, requests for letters of non-objection that involve multiple FAA Regions shall be sent through the FAA at the Agency level.

Reginald Mathews, Airspace & Rules Division Manager  
Air Traffic Airspace Management Program  
800 Independence Avenue, S.W.  
ATA-400, Room 423  
Washington, DC 20591  
Email: [reginald.mathews@faa.gov](mailto:reginald.mathews@faa.gov)  
Office Phone: 202-267-8783

Now U.S. STRATCOM  
Relocated to Vandenberg AFB

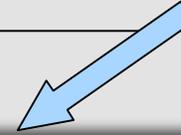
- Centers shall continue to coordinate directly with U.S. Space Command at Cheyenne Mountain.

North American Aerospace Defense Command  
CMOC/J3  
Attn: Orbital Safety Officer  
Cheyenne Mountain AFS, CO 80914-6020  
Laser Clearinghouse  
DSN 286-4416, (719) 474-4416

Mr. Guy Camomilli

- Centers shall coordinate directly with local military commands on matters of outdoor laser use and associated controls for their airspace.
- Centers shall advise the NASA Senior Environmental Health Officer of all outdoor laser coordination with the FAA, U.S. Space Command, and/or local military commands via email, and shall copy the NASA Senior Environmental Health Officer on all outdoor laser correspondence with the FAA, U.S. Space Command, and/or local

# Utilizing the Personnel Directory



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### LATEST NEWS

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[+ Read more](#)

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### Personnel Directory

**CENTER CLINICS**

- [Phone and fax number listing](#)
- [List of Medical Facilities Near NASA Centers](#)

**POINTS-OF-CONTACT QUICK REFERENCE**

- [Office of the Chief Health and Medical Officer](#)
- [Occupational Health Support Office](#)
- [Chief Nurses](#)
- [Employee Assistance Program Officers](#)
- [Environmental Health Program Managers](#)
- [Environmental Contracting Officer's Technical Representatives](#)
- [Fitness Facility Coordinators](#)
- [Flight Medicine Contacts](#)
- [Laser Safety Officer](#)
- [Medical Contracting Officer's Technical Representatives](#)
- [Medical Directors & Chief Medical Officers](#)
- [Medical Review Officers](#)
- [Radiation Safety Officers](#)
- [Workers' Compensation Officers](#)

- [E-mail to Multiple Role Groups](#) or [e-mail to ALL](#) OH personnel



# Useful Link for the Business Traveler

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**CLINIC CONTACT INFORMATION**

Clinic at	Phone	Fax	Building
Ames Research Center	650-604-5287	650-604-0640	N215
Dryden Flight Research Center	661-276-3570	661-276-2392	4822
Goddard Space Flight Center	301-286-6666	301-286-1618	97
Headquarters	202-358-2600	202-358-3027	CD-70
Jet Propulsion Lab	818-351-3319	818-393-4963	310
John H. Glenn Research Center	433-5841	216-433-6529	15
Johnson Space Center	281-483-4111	281-244-5179	8
Kennedy Space Center	321-867-3346	321-867-2040	M6-495
Langley Research Center	757-864-3193	757-864-9114	1149
Marshall Space Flight Center	256-544-2390	256-544-5746	4249
Michoud Assembly Facility	504-257-2701	504-257-4425	320
Stennis Space Center	228-688-3810	228-688-7565	1100
Wallops Flight Facility	757-824-1266	757-824-1497	F160
White Sands Testing Facility	505-524-5212	505-524-5046	104



# Health Physics Program POCs

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# Center Laser Safety Contacts

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Quick Search

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**PERSONNEL DIRECTORY QUICK SEARCH RESULTS**

**Selected role:**  
**Laser Safety Officer** ←

Persons found: 18

<b>Battle, Fred</b> Jet Propulsion Lab Mailcode: MS: 303-401 Pasadena, CA 91109	<b>Title:</b> LSO (Outdoors) <b>Roles:</b> LSO, CEHC <b>Email:</b> <a href="mailto:Frederick.W.Battle@jpl.nasa.gov">Frederick.W.Battle@jpl.nasa.gov</a> <b>Ph:</b> 818 354-1255 <b>Fax:</b> 818 354-6290
<b>Blasio, Chris</b> John H. Glenn Research Center Mailcode: MS 6-4 Cleveland, OH 44135	<b>Title:</b> Industrial Hygienist <b>Roles:</b> LSO, CEHC, RSO <b>Email:</b> <a href="mailto:Christopher.J.Blasio@qrc.nasa.gov">Christopher.J.Blasio@qrc.nasa.gov</a> <b>Ph:</b> 216-433-6520 <b>Fax:</b> 216-433-8000
<b>Brown, Phillip</b> Marshall Space Flight Center Marshall Space Flight Center, AL 35812	<b>Title:</b> Health Physicist <b>Roles:</b> LSO, CEHC, RSO <b>Email:</b> <a href="mailto:Phillip.Brown@msfc.nasa.gov">Phillip.Brown@msfc.nasa.gov</a> <b>Ph:</b> 256 544 5738

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Lists primary laser safety contacts



# Center Radiation Safety Contacts

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**PERSONNEL DIRECTORY QUICK SEARCH RESULTS**

**Selected role:**  
Radiation Safety Officers ←

Persons found: 18

<b>Blasio, Chris</b> John H. Glenn Research Center Mailcode: MS 6-4 Cleveland, OH 44135	<b>Title:</b> Industrial Hygienist <b>Roles:</b> LSO, CEHC, RSO <b>Email:</b> <a href="mailto:Christopher.J.Blasio@grc.nasa.gov">Christopher.J.Blasio@grc.nasa.gov</a> <b>Ph:</b> 216-433-6520 <b>Fax:</b> 216-433-8000
<b>Brown, Phillip</b> Marshall Space Flight Center Marshall Space Flight Center, AL 35812	<b>Title:</b> Health Physicist <b>Roles:</b> LSO, CEHC, RSO <b>Email:</b> <a href="mailto:Philip.Brown@msfc.nasa.gov">Philip.Brown@msfc.nasa.gov</a> <b>Ph:</b> 256 544 5738
<b>Davis, Bette</b> Dryden Flight Research Center Mailcode: 4850 Edwards, CA 93523-0273	<b>Title:</b> IH Program Manager, Radiation & Laser Safety Officer <b>Roles:</b> EHPM, LSO, CEHC, RSO <b>Email:</b> <a href="mailto:bette.j.davis@nasa.gov">bette.j.davis@nasa.gov</a> <b>Ph:</b> 661-276-3438 <b>Fax:</b> 661-276-2254

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Lists primary ionizing radiation safety contacts

# Environmental Health Resources



**Environmental Health**

**UPCOMING EVENTS**

**Environmental Health VITS**  
The next video conference is scheduled for **Wednesday June 11, 2008 at 11:00am ET.**

**Health Physics VITS**  
The next video conference is scheduled for **Wednesday August 06, 2008 at 11:00am ET.**

**CURRENT NEWS**

**NASA IHs to Gather in Minneapolis at AIHCE 2008**  
On Monday June 2, from 5:00 - 8:00 PM NASA Center Industrial Hygienists (IHs) will gather at the [Millennium Hotel](#) in the Horizons Room as part of the activities associated with the American Industrial Hygiene Conference and Exposition (AIHCE). The AIHCE is being held this year in Minneapolis, MN.

**RESOURCES**

- CIH Continuing Ed**  
OH sponsored continuing education information for Industrial Hygienists.  
[+ Read more](#)
- EH Online Resources**  
EH related documents on the internet.  
[+ See list](#)
- EH Program Contacts**  
Center program contacts listed by interest area, center or person.  
[+ See list](#)
- Radiation Event Medical Management (REMM)**  
National Library of Medicine e-Tools and Guidance.  
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- VITS Archive**  
EH video conferences notes and presentations.  
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# EH Online Resources

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- Federal Register Search
- NRC Reference Library
- NASA Technical Standard
- Health Physics Society
- Laser Institute of America
- Lots more...



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<a href="#">Expand all</a> / <a href="#">Expand &amp; Jump to Health Physics</a> / <a href="#">Collapse all</a>				
<b>NOTE:</b> A user name and password are required to download the ViTS presentation files. If you wish to download any of these files and don't have a user name/password please contact either <a href="#">Kurt Geber</a> or <a href="#">Bart Geyer</a> .				
<b>ENVIRONMENTAL HEALTH ViTS ARCHIVE</b>				
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Bart Geyer for assistance

# Listing of OH-Related Conferences



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**CONFERENCES AND MEETINGS**

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OCHMO Sponsored

 [2008 AIHCE NASA Industrial Hygiene Breakout Meeting](#)  
5:00 - 8:00pm  
Millennium Hotel  
Minneapolis, MN  
June 02, 2008

 [2008 NASA Occupational Health Conference](#)  
Radisson Plaza Lord Baltimore  
Baltimore, MD  
July 07-11, 2008

Other

 [AIHce'08](#)  
*Vision, Value, Impact.*  
Minneapolis Convention Center  
Minneapolis, MN  
May 31 - June 05, 2008

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General Information

**OH Disciplines**

- + Employee Assistance
- + Environmental Health
- + Occupational Medicine
- + Physical Fitness
- + Workers' Comp.

**Professional Resources**

- + Center Resources
- + EHRs
- + Health Promotion
- + Policies
- + References
- + Topics
- + Training

NASA Employees

## 2008 NASA Occupational Health Conference

2008 NASA Occupational Health Conference

Radisson Plaza Lord Baltimore  
20 West Baltimore Street  
Baltimore, MD, 21201

The Office of the Chief Health and Medical Officer (OCHMO) will hold the 2008 NASA Occupational Health Conference at The Radisson Plaza Lord Baltimore, Baltimore, Maryland.

The theme this year is *The Past: Key to Navigating the Future.*

General Schedule		
Sunday, July 6	4:00pm to 6:00pm	Registration
Monday, July 7	6:00pm to 8:00pm	Welcome Reception
Tuesday, July 8	8:00am to 2:30pm	Plenary Session
	2:30pm to 5:30pm	Breakout Sessions

HP Breakout Session

+ See agenda

MORE INFORMATION

**Registration**  
 Online conference registration.  
[+ Register here](#)

**Hotel Information**  
 About the Radisson Plaza Lord Baltimore and registration.  
[+ Read more](#)

**Invitation Letter**  
 Letter of invitation to

## 2008 NASA Health Physics Conference

# Health Physics Breakout Session

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Tuesday, July 8<sup>th</sup>, 2:30 - 5:30



*“The Most Powerful Tool for Effective Risk  
Communication - Active Listening”*

Ray Johnson, CHP

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2008 NASA Health Physics Conference

# Health Physics Policy Update

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## NPR 1800.1, “Occupational Health Program Procedures”

1. General requirement for RPP
2. Radioactive Materials
3. Radiation Generating Devices
4. Radiofrequency and Microwave Emitters
5. Lasers and Non-Laser Optical Sources

# Health Physics Policy Update

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## General Requirements:

- Ionizing and non-ionizing
- ALARA
- Written Program & Implementing SOPs
- Use Authorizations
- Ann. Review of Content and Implement.
- Comprehensive Inventory
- Surveys & Monitoring



## Questions



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