

## X-Clometer: Optimizing Portable Radiography

**Description of Technology:** The technology offered for licensing and commercial development relates to a method and apparatus that can significantly improve the diagnostic performance of portable chest (CXR) and abdominal x-rays. This device quantifies angulation of a patient to provide for a better comparison of day-to-day improvement.

The portable CXR is one of the most commonly requested diagnostic medical tests around the world. They are performed nearly daily on some of the sickest patients in hospitals. Paradoxically, it is well documented that portable radiography of the chest is inconsistent and often inadequate.

An upright projection best evaluates effusions, rules out free air, or detects air-fluid levels. Optimally, the images are obtained at similar angles each day, even if not erect, to allow accurate comparisons and assessment of change. It is well documented that portable radiography of the chest is inconsistent and often inadequate. To achieve optimal quality of the exam the technologist attempts the most upright projection; balanced with patient condition and ability to achieve this often impossible task.

**Potential Commercial Applications:** Portable chest and abdominal x-rays performed at patient's hospital bedside.

### Competitive Advantages:

- Currently, there is no quantitative marker to indicate degree of the upright position. Prior markers with small ball bearings sinking to a small circle only indicate if the patient is supine or not. This technology introduces a simple dynamic marker that can quantify the angle at a glance for the radiologist to best compare patient condition over time. This device objectively quantifies cassette angle with a ball bearing in a cylindrical tube with markers to indicate upright position in degrees.

- The technology improves performance of CXR, allowing reliable comparisons of patient condition over time. Thus, better therapies can be planned and unnecessary CT (Computerized Tomography) can be prevented.

- The technology improves care for Intensive Care Unit patients, as developing effusion and the need for immediate drainage (as one of many examples) can be more effectively assessed with the present apparatus. A widespread use of the device will save lives through improved diagnosis and comparison of effusions.

### Development Stage:

- A performance of a visual prototype was demonstrated. The visual prototype was imaged at 5 selected angles with a chest phantom. Initial in-vitro results demonstrate that angles can be quantified to within 30 degrees.

- Improved prototypes with more accuracy are currently being manufactured for to patient use. *In-vivo* studies will soon be underway to validate clinical utility.

**Inventors:** Les R. Folio (CC) and Lucas S. Folio

### Publications:

1. Wandtke JC. Bedside chest radiography. *Radiology*. 1994; 190:1–10. [PMID 8043058]
2. Pneumatikos I, Bouros D. Pleural effusions in critically ill patients. *Respiration*. 2008; 76(3):241–248. [PMID 18824883]
3. Mattison LE, et al. Pleural effusions in the medical ICU: Prevalence, causes, and clinical implications. *Chest*. 1997 Apr;111(4):1018–1023. [PMID 9106583]
4. Fartoukh M, et al. Clinically documented pleural effusions in medical ICU patients: How useful is routine thoracentesis? *Chest*. 2002 Jan;121(1):178–184. [PMID 11796448]
5. Bekemeyer WB, et al. Efficacy of chest radiography in a respiratory intensive care unit. A prospective study. *Chest*. 1985 Nov; 88(5): 691–696. [PMID: 4053711]
6. Tocino I. Chest imaging in intensive care unit. *Eur J Radiol* 1996 Aug;23(1):46–57. [PMID 8872073]

**Patent Status:** HHS Reference No. E–036–2011/0—U.S. Patent Application No. 14/005,024 filed September 13, 2013.

**Licensing Contact:** Tedd Fenn; 424–297–0336; [tedd.fenn@nih.gov](mailto:tedd.fenn@nih.gov)

**Collaborative Research Opportunity:** The NIH Clinical Center, Radiology and Imaging Sciences, is seeking statements of capability or interest from parties interested in collaborative research to further develop, evaluate, or commercialize X-Clometer. Please contact Ken Rose, Ph.D. at 240–276–5509 or [rosek@mail.nih.gov](mailto:rosek@mail.nih.gov) for more information.

Dated: May 14, 2015.

**Richard U. Rodriguez,**

*Acting Director, Office of Technology Transfer, National Institutes of Health.*

[FR Doc. 2015–12124 Filed 5–19–15; 8:45 am]

**BILLING CODE 4140–01–P**

## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

### Center for Scientific Review Notice of Closed Meetings

Pursuant to section 10(d) of the Federal Advisory Committee Act, as

amended (5 U.S.C. App.), notice is hereby given of the following meetings.

The meetings will be closed to the public in accordance with the provisions set forth in sections 552b(c)(4) and 552b(c)(6), Title 5 U.S.C., as amended. The grant applications and the discussions could disclose confidential trade secrets or commercial property such as patentable material, and personal information concerning individuals associated with the grant applications, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

**Name of Committee:** Infectious Diseases and Microbiology Integrated Review Group; Virology—A Study Section.

**Date:** June 8–9, 2015.

**Time:** 8:00 a.m. to 5:00 p.m.

**Agenda:** To review and evaluate grant applications.

**Place:** Renaissance Long Beach Hotel, 111 East Ocean Blvd., Long Beach, CA 90802.

**Contact Person:** Kenneth M. Izumi, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 3204, MSC 7808, Bethesda, MD 20892, 301–496–6980, [izumikm@csr.nih.gov](mailto:izumikm@csr.nih.gov).

**Name of Committee:** Musculoskeletal, Oral and Skin Sciences Integrated Review Group; Skeletal Muscle and Exercise Physiology Study Section.

**Date:** June 10–11, 2015.

**Time:** 8:00 a.m. to 6:00 p.m.

**Agenda:** To review and evaluate grant applications.

**Place:** Historic Inns of Annapolis, 58 State Circle, Annapolis, MD 21401.

**Contact Person:** Richard Ingraham, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 4116, MSC 7814, Bethesda, MD 20892, 301–496–8551, [ingrahamrh@mail.nih.gov](mailto:ingrahamrh@mail.nih.gov).

**Name of Committee:** Oncology 1-Basic Translational Integrated Review Group; Cancer Etiology Study Section.

**Date:** June 11–12, 2015.

**Time:** 8:00 a.m. to 5:00 p.m.

**Agenda:** To review and evaluate grant applications.

**Place:** Gaithersburg Marriott Washingtonian Center, 9751 Washingtonian Boulevard, Gaithersburg, MD 20878.

**Contact Person:** Svetlana Kotliarova, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 6214, Bethesda, MD 20892, 301–594–7945, [kotliars@mail.nih.gov](mailto:kotliars@mail.nih.gov).

**Name of Committee:** Center for Scientific Review Special Emphasis Panel; Member Conflict: Palliative care and survivorship.

**Date:** June 11, 2015.

**Time:** 6:00 p.m. to 8:00 p.m.

**Agenda:** To review and evaluate grant applications.

**Place:** Renaissance Long Beach Hotel, 111 East Ocean Blvd., Long Beach, CA 90802.

**Contact Person:** Martha L. Hare, Ph.D., RN, Scientific Review Officer, Center for

Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 3154, MSC 7770, Bethesda, MD 20892, (301) 451-8504, [harem@mail.nih.gov](mailto:harem@mail.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Molecular Neurodegeneration.

*Date:* June 15, 2015.

*Time:* 4:00 p.m. to 5:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* Renaissance Washington DC, Dupont Circle, 1143 New Hampshire Avenue NW., Washington, DC 20037.

*Contact Person:* Peter B. Guthrie, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 4142, MSC 7850, Bethesda, MD 20892, (301) 435-1239, [guthriep@csr.nih.gov](mailto:guthriep@csr.nih.gov).

*Name of Committee:* Oncology 1—Basic Translational Integrated Review Group; Tumor Progression and Metastasis Study Section.

*Date:* June 17–18, 2015.

*Time:* 8:00 a.m. to 5:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* Marriott Wardman Park Washington DC Hotel, 2660 Woodley Road, NW., Washington, DC 20008.

*Contact Person:* Rolf Jakobi, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 6187, MSC 7806, Bethesda, MD 20892, 301-495-1718, [jakobir@mail.nih.gov](mailto:jakobir@mail.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Musculoskeletal, Oral and Skin Sciences AREA review.

*Date:* June 17, 2015.

*Time:* 8:00 a.m. to 5:30 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, 6701 Rockledge Drive, Bethesda, MD 20892, (Virtual Meeting).

*Contact Person:* Yanming Bi, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 4214, MSC 7814, Bethesda, MD 20892, 301-451-0996, [ybi@csr.nih.gov](mailto:ybi@csr.nih.gov).

*Name of Committee:* Genes, Genomes, and Genetics Integrated Review Group; Prokaryotic Cell and Molecular Biology Study Section.

*Date:* June 17–18, 2015.

*Time:* 8:30 a.m. to 6:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* Renaissance M Street Hotel, 1143 New Hampshire Avenue NW., Washington, DC 20037.

*Contact Person:* Dominique Lorang-Leins, Ph.D., Scientific Review Officer, National Institutes of Health, Center for Scientific Review, 6701 Rockledge Drive, Room 5108, MSC 7766, Bethesda, MD 20892, 301.326.9721, [Lorangd@mail.nih.gov](mailto:Lorangd@mail.nih.gov).

*Name of Committee:* Oncology 2—Translational Clinical Integrated Review Group; Cancer Immunopathology and Immunotherapy Study Section.

*Date:* June 18–19, 2015.

*Time:* 8:00 a.m. to 1:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* Embassy Suites Alexandria, 1900 Diagonal Road, Alexandria, VA 22314.

*Contact Person:* Denise R Shaw, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 6158, MSC 7804, Bethesda, MD 20892, 301-435-0198, [shawdeni@csr.nih.gov](mailto:shawdeni@csr.nih.gov).

(Catalogue of Federal Domestic Assistance Program Nos. 93.306, Comparative Medicine; 93.333, Clinical Research, 93.306, 93.333, 93.337, 93.393–93.396, 93.837–93.844, 93.846–93.878, 93.892, 93.893, National Institutes of Health, HHS)

*Dated:* May 14, 2015.

**Carolyn Baum,**

*Program Analyst, Office of Federal Advisory Committee Policy.*

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## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

#### Center for Scientific Review; Notice of Closed Meeting

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended (5 U.S.C. App.), notice is hereby given of the following meeting.

The meeting will be closed to the public in accordance with the provisions set forth in sections 552b(c)(4) and 552b(c)(6), Title 5 U.S.C., as amended. The grant applications and the discussions could disclose confidential trade secrets or commercial property such as patentable material, and personal information concerning individuals associated with the grant applications, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Program Project: A Predictive Understanding of Cell Motility.

*Date:* May 28–29, 2015.

*Time:* 8:30 a.m. to 5:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, 6701 Rockledge Drive, Bethesda, MD 20892, (Virtual Meeting).

*Contact Person:* Sergei Ruvinov, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 4158, MSC 7806, Bethesda, MD 20892, 301-435-1180, [ruvinser@csr.nih.gov](mailto:ruvinser@csr.nih.gov).

This notice is being published less than 15 days prior to the meeting due to the timing limitations imposed by the review and funding cycle.

(Catalogue of Federal Domestic Assistance Program Nos. 93.306, Comparative Medicine; 93.333, Clinical Research, 93.306, 93.333, 93.337, 93.393–93.396, 93.837–93.844, 93.846–93.878, 93.892, 93.893, National Institutes of Health, HHS)

*Dated:* May 15, 2015.

**Anna Snouffer,**

*Deputy Director, Office of Federal Advisory Committee Policy.*

[FR Doc. 2015-12241 Filed 5-19-15; 8:45 am]

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## DEPARTMENT OF HOMELAND SECURITY

### U.S. Customs and Border Protection

[1651-0019]

#### Agency Information Collection Activities: Vessel Entrance or Clearance Statement

**AGENCY:** U.S. Customs and Border Protection, Department of Homeland Security.

**ACTION:** 30-Day notice and request for comments; Extension of an existing collection of information.

**SUMMARY:** U.S. Customs and Border Protection (CBP) of the Department of Homeland Security will be submitting the following information collection request to the Office of Management and Budget (OMB) for review and approval in accordance with the Paperwork Reduction Act: Vessel of Entrance or Clearance Statement (CBP Form 1300). This is a proposed extension of an information collection that was previously approved. CBP is proposing that this information collection be extended with no change to the burden hours or to the information collected. This document is published to obtain comments from the public and affected agencies.

**DATES:** Written comments should be received on or before June 19, 2015 to be assured of consideration.

**ADDRESSES:** Interested persons are invited to submit written comments on this proposed information collection to the Office of Information and Regulatory Affairs, Office of Management and Budget. Comments should be addressed to the OMB Desk Officer for Customs and Border Protection, Department of Homeland Security, and sent via electronic mail to [oir\\_submission@omb.eop.gov](mailto:oir_submission@omb.eop.gov) or faxed to (202) 395-5806.

**FOR FURTHER INFORMATION CONTACT:** Requests for additional information should be directed to Tracey Denning, U.S. Customs and Border Protection, Regulations and Rulings, Office of