

RECEIVED
REGION 1

June 23, 2005

2005 JUN 27 PM 1:36



UNIVERSITY OF RICHMOND
FOUNDED 1830

U.S. Nuclear Regulatory Commission
Division of Nuclear Materials Safety
Region 1
475 Allendale Road
King of Prussia, PA 19406

Dear Sir or Madam:

Please consider the following amendments to our current license 45-08373-01:

03001105

Safety and
Risk Management
28 Westhampton Way

Add: Cornelius Beausang, Ph.D.

For use of 133 Ba, 109 Cd, 57 Co, 60 Co, 137 Cs, 54 Mn, 22 Na, 152 Eu,
207 Bi, 241 Am and 210 Pb.

These sources will be sealed sources and will be used to calibrate the
energy and efficiency response of gamma-ray detectors in an
environmental radiation laboratory in our physics department.

Training:

Berkeley National Laboratory – see copy of letter dated November 9,
2004.

Education:

1982 B.Sc. University College, Cork, Ireland
1985 M.A. Suny Stony Brook
1987 Ph.D. Suny Stony Brook

Experience:

20+ years working at accelerator laboratories and university facilities.

Dr. Beausang has worked with a variety of radioactive sources and materials. He has worked at: Yale University, Wright Nuclear Structure Laboratory and Lawrence Berkeley National Laboratory.

Add: To Line 6	Source
133 Ba	2 millicuries
109 Cd	2 millicuries
57 Co	2 millicuries
60 Co	2 millicuries
137 Cs	2 millicuries
54 Mn	2 millicuries
22 Na	2 millicuries
152 Eu	2 millicuries
207 Bi	2 millicuries
210 Pb	2 millicuries

Please do not hesitate to contact me if you require further information.

Sincerely,



John E. Sheffield, Jr.
Director of Safety
And Risk Management

JES/mjk

Enclosures: 1) Letter dated November 9, 2004
2) Information sheet on Cornelius Beausang



ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY

November 9, 2004

To Whom It May Concern:

This is to verify that Dr. Cornelius Beausang has participated in radiation testing at the 88" Cyclotron at the Lawrence Berkeley National Laboratory and that he has taken the following training:

EH&S 405	General Employee Radiation Training
EH&S 440	Radiation Safety at Accelerators
EH&S 450	Personal Radiation Monitoring

Re-training is required every two years. Dr. Beausang's training is good through October 2006.

If you have any questions regarding his training, please feel free to contact me at the numbers listed below.

Sincerely,

Peggy McMahan, Ph.D.
Staff Scientist/Research Coordinator
Nuclear Science Division

C.W. Beausang

Department of Physics
University of Richmond
Richmond VA 23173
Date of Birth: [REDACTED]

Phone: (804) 289 8783
Fax: (804) 289
E-mail: cbeausan@richmond.edu
Citizenship: [REDACTED]

Professional Preparation

1987 Ph.D. SUNY Stony Brook
1985 M.A. SUNY Stony Brook
1982 B.Sc. University College Cork, Ireland

Appointments

2004 – present:	Robert E. and Lena F. Loving Chair	University of Richmond
2004 – present:	Associate Professor (tenure)	University of Richmond
2001 – 2004:	Associate Professor	Yale University
1996 – 2001:	Assistant Professor	Yale University
1990 – 1996:	Chadwick Fellow	Liverpool University, U.K.
1987 – 1990:	Postdoctoral Fellow	Lawrence Berkeley Natl. Lab
1983 – 1987:	Teaching and Research Assistant	SUNY Stony Brook

Visiting Appointments

2004 – present:	Adjunct Professor	Yale University
2002 – present:	Visiting Reader	University of Surrey, U.K.
2002 – present:	Visiting Scientist	LLNL

Professional Activities and Honors (since 2001)

2004 – present: Secretary Gammasphere Users Executive Committee.
2003 – present: GRETA Advisory Committee.
2004 – present: Education committee, Division of Nuclear Physics of the American Physical Society
2003 – present: Ad-hoc Homeland Security Committee, American Physical Society.
2003 Organizer of the first four Yale Workshops, 'Nuclear Structure Physics Near the Coulomb Barrier' (June 2003, 2001, 1999 and 1997)
2003: The 2003 Yale University, Seaton Elm-Ivy Award
2003: The 2003 Yale University, Dylan Hixon Prize for Teaching Excellence
2004: Robert E. and Lena F. Loving Chair, University of Richmond.
2004: Member of the international scientific advisory committees for several conferences including most recently Limits 2004.

Synergistic Activities

1996 – 2004 Postdoctoral (5 [5]), graduate (7 [2]) and undergraduate (25 [7]) research mentoring at Yale and Richmond. A total of 14 of these young scientists are women.
1997 – 2004: Initiated and organized the Yale Physics Olympics. Held annually since 1997, the YPO regularly attracts 200+ high school students. The first Richmond Physics Olympics is scheduled for April 2004.
2002 – 2004: Outreach courses at Yale on basic nuclear physics for first responders.
2002 – 2004: Courses on basic nuclear physics for non-science Yale Undergraduates
1999 – 2004 Faculty Advisor for the Yale Corinthian Yacht Club (1998-2004). A recent alum was a member of the US Olympic Sailing team in Athens.

Publication Record (through August 2004)

Refereed papers, letters 56 (9 since 2001), articles 115 (32); Invited talks at conferences 39 (12); Seminars/Colloquia 25 (9); Citations >3500.

**PERSONAL INFORMATION WAS REMOVED
BY NRC. NO COPY OF THIS INFORMATION
WAS RETAINED BY THE NRC.**

Ph.D Advisor

D.B. Fossan

Ph.D. Advisees

John Novak, Adam Hecht, Deseree Meyer (4)

Ho-Chaing Ai (4), Gulhan Gurdal (4)

Postdoctoral Advisors

R.M. Diamond, F.S. Stephens, P.J. Twin

Postdoctoral Advisees

Anna Wilson, Lissa Zyromski, Jo Ressler,

Hanan Amro, Cristina Plettner

Radiation Training/ Experience

I have 20+ years experience working in a variety of national, and international accelerator laboratories and university facilities. During this time I have worked with a very large number and variety of radioactive sources and materials.

Laboratories and facilities I have worked at most recently include: Yale University,

Wright Nuclear Structure Laboratory and Lawrence Berkeley National Laboratory

My primary research focus is in the field of nuclear structure physics using gamma-ray spectroscopy as a tool.

Sources I routinely work with include both sealed gamma-ray and also open alpha- and beta- calibration sources.

Typical activities range from 1 to a few 10's of micro curies.

At Richmond I will initially need only ~10 micro curie sealed gamma-ray standards.

Examples of sources/isotopes I used in the last 12 months include ^{152}Eu , ^{137}Cs , ^{133}Ba , and ^{241}Am

This is to acknowledge the receipt of your letter/application dated

6/23/2005, and to inform you that the initial processing which includes an administrative review has been performed.

☒ Amendment 45-08373-01 There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number 137305.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

BETWEEN: : (FOR LFMS USE)
: INFORMATION FROM LTS
: -----
:
License Fee Management Branch, ARM : Program Code: 03620
and : Status Code: 0
Regional Licensing Sections : Fee Category: EX 3M
: Exp. Date: 20150430
: Fee Comments: 170.11(A) (4)
: Decom Fin Assur Req'd: N
: ::::::::::::::::::::::::::::::::::::::

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: RICHMOND, UNIVERSITY OF
Received Date: 20050627
Docket No: 3001105
Control No.: 137305
License No.: 45-08373-01
Action Type: Amendment

2. FEE ATTACHED

Amount: /
Check No.: /

3. COMMENTS

Signed *Michael J. Ford*
Date 7/7/05

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /__/)

1. Fee Category and Amount: _____

2. Correct Fee Paid. Application may be processed for:

Amendment _____
Renewal _____
License _____

3. OTHER _____

Signed _____
Date _____