

07000303

VOID SHEET

TO: License Fee Management Branch

FROM: RI

SUBJECT: VOIDED APPLICATION

Control Number: 127033

Applicant: CARNEGIE MELLON UNIVERSITY

Date Voided: 9-2-99

Reason for Void: Amendment not necessary. Lic. No. SNM-281.  
Before review.

Rebecca J. Brown 9-7-99  
Signature Date

Attachment:  
Official Record Copy of  
Voided Action

FOR LFMB USE ONLY

Final Review of VOID Completed:

Refund Authorized and processed

☒ No Refund Due

Fee Exempt or Fee Not Required

Comments: \_\_\_\_\_

Log completed

Processed by: LB

9910290080 990907  
PDR ADOCK 07000303  
C PDR

070048 \_\_\_\_\_

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

7-13-99, and to inform you that the initial processing which includes an administrative review has been performed.

☒ *Amend* *70/00303 SNM-281*  
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 **127033**  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.

NRC FORM 532 (R1)  
(6-93)

Sincerely,  
Licensing Assistance Team Leader

# Carnegie Mellon

Carnegie Mellon University  
5000 Forbes Avenue  
Pittsburgh, Pennsylvania 15213-3890  
(412) 268-2914  
(412) 268-6976 Facsimile  
Facilities Management Services

Dr. Mohamed M. Shanbaky, Chief  
Research and Development Section  
Division of Radiation Safety and Safeguards  
United States Nuclear Regulatory Commission  
Region I  
475 Allendale Road  
King of Prussia, Pennsylvania 19406-1415

License No. 37-00602-03  
Docket No. 030-14472  
Mail Control No. 115366

License No. SNM-281  
Docket No. 070-00303

Dear Mr. Kinneman:

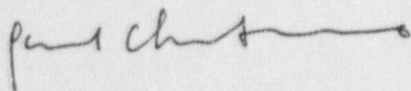
Carnegie Mellon University (Carnegie Mellon) wants to amend its licenses (37-00602-03 and SNM-281) to change the Radiation Safety Committee Chair (RSC) from Mr. Jason Wolf to Dr. Richard Luthy. Mr. Wolf has stepped down as RSC Chair and Dr. Luthy has been appointed as the new Chair of the Committee.

Dr. Luthy's radiological protection training and related technical experience is attached to this amendment request.

CMU is a non-profit educational institution and as such is fee exempt in accordance with 10CFR171.11A.

If you have any questions or comments please contact Denis J. Rinkacs, Jr., Carnegie Mellon's Radiation Safety Officer, at 412-268-3221.

Very truly yours,



Dr. Paul P. Christiano, Provost  
Carnegie Mellon University

Attachment

127033

JUL 13 1999

OFFICIAL RECORD COPY

ML 10



**RICHARD G. LUTHY, Ph.D., P.E., D.E.E.**

Thomas Lord Professor of Environmental Engineering, Department of Civil and Environmental Engineering, Carnegie Mellon University, Pittsburgh, PA 15213

Dick Luthy is the Thomas Lord Professor of Environmental Engineering and former Head of the Department of Civil and Environmental Engineering. His area of teaching and research area is environmental engineering and water quality. His work addresses the protection and restoration of soil, sediment, and groundwater using physicochemical and microbial processes, and physicochemical processes for industrial waste reduction and reuse. He is noted for work on the treatment and fate of hydrophobic organic compounds. Presently he directs a multi-institution research program to investigate the sequestration of organic contaminants on sediments and the effects of sequestration on treatment, bioavailability, and toxicity. He has served as President of the Association of Environmental Engineering Professors, and on various committees of the National Research Council. He is a registered professional engineer, a Diplomat of the American Academy of Environmental Engineers, and a member of the National Academy of Engineering.

**Experience**

1996-present: Thomas Lord Professor of Environmental Engineering, Carnegie Mellon University  
1989-1996: Head, Department of Civil and Environmental Engineering  
1986-1988: Associate Dean, Carnegie Institute of Technology, Acting Dean (6/1988-12/1988).  
1983-present: Professor, Dept. of Civil and Environmental Engineering, Acting Head (6/85-1/86)  
1980-1983: Associate Professor, Department of Civil Engineering  
1975-1980: Assistant Professor, Department of Civil Engineering  
1984-1986 and 1997-1999: Faculty Chairman-Chairman/Elect, Carnegie Institute of Technology

**Education**

Ph.D., Civil Engineering (Environmental Engineering), University of California, Berkeley, CA 1976  
MS, Civil Engineering (Environmental Engineering), University of California, Berkeley, CA, 1974  
MS, Ocean Engineering, University, Honolulu, HI, 1969  
BS, Chemical Engineering, University of California, Berkeley, CA, 1967

**Selected Awards and Professional Service**

Harrison Prescott Eddy Medal, Water Pollution Control Federation (1980)  
Nalco Ph.D. Thesis Award, Association of Environmental Engineering Professors (1978, 1982)  
Engineering-Science Ph.D. Thesis Award, Association of Environmental Engineering Professors (1988)  
Editorial Advisory Board, Environmental Science and Technology (1992-1994).  
Founders Award, USA National Committee, International Association on Water Quality (1986, 1993)  
Chair, Gordon Research Conference on Environmental Sciences: Water (1994).  
National Research Council, Water Science and Technology Board, Committee on Innovative Remediation Technologies (1994-1997).  
Reith Distinguished Lecture, School of Civil Engineering, Purdue University (1996)  
Pennsylvania Water Environment Association, Professional Research Award (1996).  
Shimizu Corporation Visiting Professor, Department of Civil Engineering, Stanford University, Stanford, California (1996-1997).  
School of Engineering Advisory Council, Stanford University, Stanford, CA (1997-2000)  
National Research Council, Committee on Intrinsic Remediation (1997-2000)  
National Research Council, Member Water Science and Technology Board (1997-2000)  
Member, National Academy of Engineering (elected 1999)

### Selected Recent Publications

- Ramaswami, A. and R.G. Luthy, "Mass Transfer and Bioavailability of PAH Compounds in Coal Tar NAPL-Slurry Systems: 1. Model Development," *Environmental Science and Technology*, 31:8, pp. 2260-2267, 1997.
- Luthy, R.G., G.R. Aiken, M.L. Brusseau, S.D. Cunningham, P.M. Gschwend, J.J. Pignatello, M. Reinhard, S. Traina, W.J. Weber, Jr., and J.C. Westall, "Sequestration of Hydrophobic Organic Contaminants by Geosorbents," *Environmental Science and Technology*, 31:12, pp. 3341-3347, 1997.
- Ramaswami, A. and R.G. Luthy, "Measuring and Modeling Physico-Chemical Limitations to Bioavailability and Biodegradation," Chapter 78, pp. 712-729, *Manual of Environmental Microbiology*, C.J. Hurst, Ed., American Society for Microbiology, ASM Press Washington, DC, 1997.
- Luthy, R.G., D.A. Dzombak, M.J.R. Shannon, R. Unterman and J.R. Smith, "Aqueous Solubility of PCB Congeners from an Aroclor and an Aroclor/Hydraulic Oil Mixture," *Water Research*, 31:3, pp. 561-573, 1997.
- Ghoshal, S. and R.G. Luthy, "Biodegradation Kinetics of Naphthalene in Nonaqueous Phase Liquid-Water Mixed Batch Systems: Comparison of Model Predictions and Experimental Results," *Biotechnology and Bioengineering*, Vol. 57, No. 3, pp. 356-366, 1998.
- Ortiz, E., M. Kraatz and R.G. Luthy, "Organic Phase Resistance to Dissolution of Polycyclic Aromatic Hydrocarbon Compounds," *Environmental Science and Technology*, 33:2, PP. 235-242, 1999.
- Gillette, J.S., R.G. Luthy, S.J. Clemett, and R.N. Zare, "Direct Observation of Polycyclic Aromatic Hydrocarbons on Geosorbents and the Subparticle Scale," *Environmental Science and Technology*, 33:8, pp. 1185-1192, 1999.
- Ghosh, R.S., D.A. Dzombak, R.G. Luthy, and J.R. Smith, "In Situ Treatment of Cyanide-Contaminated Groundwater by Iron Cyanide Precipitation," in publication, *Water Environment Research*, 1999.
- Ghosh, R.S., Dzombak, D.A., and R.G. Luthy, "Equilibrium Precipitation and Dissolution of Iron Cyanide Solids in Water," in publication, *Environmental Engineering Science*, 1999.

### Current Support

- "Bioavailability and Biostabilization of PCBs in Soil," DOE/EPA/NSF/ONR Joint Program on Bioremediation, US Environmental Protection Agency, Office of Research and Development, Washington, DC, \$524,000, R.G. Luthy, Principal Investigator (1997-1999)
- "Assessment and Prediction of Biostabilization of Polycyclic Aromatic Hydrocarbons (PAHs) in Sediments," US Dept. of Defense, Strategic Environmental Research and Development Program, \$1,500,000, J.W. Talley, R.G. Luthy, R.N. Zare, H. Pritchard, Co-PIs, (1997-2000)
- "Biostabilization of Polycyclic Aromatic Hydrocarbons Under Denitrification Conditions in Sediments," US Army Research Office (\$50,000), Gas Research Institute (\$250,000), and Waterways Experiment Station, R.G. Luthy, PI (1997-2001)
- "Cyanide Formation and Fate in Complex Effluents and Its Relation to Water Quality Criteria," Water Environment Research Foundation, Electric Power Research Institute, and Gas Research Institute, \$210,000, D.A. Dzombak and R.G. Luthy, Principal Investigators (1998-2001). Note: other collaborators with separate funding: Malcolm-Pirnie, Oakland, CA, and Clarkson University.
- "Subsurface Fate and Transport of Cyanide at MGP Sites," Electric Power Research Institute, Palo Alto, CA, and Wisconsin Power and Light Company, Madison, WI, \$59,430 (continuation funding added to \$270,000 of previous funding), D.A. Dzombak and R.G. Luthy, Principal Investigators (1995-1999).



BETWEEN:

License Fee Management Branch, ARM  
and  
Regional Licensing Sections

(FOR LFMS USE)  
INFORMATION FROM LTS

Program Code: 22140  
Status Code: 0  
Fee Category: EX 1D  
Exp. Date: 20050430  
Fee Comments: 170.11(A)(4)  
Decom Fin Assur Req'd: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: CARNEGIE MELLON UNIVERSITY  
Received Date: 19990713  
Docket No: 7000303  
Control No.: 127033  
License No.: SNM-281  
Action Type: Amendment

2. FEE ATTACHED

Amount: \_\_\_\_\_  
Check No.: \_\_\_\_\_

3. COMMENTS

Reference 127032

Signed Rebecca J. Brown  
Date 7/15/99

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 02 is reached ☒)

1. Fee Category and Amount: EX 1D

**FEE EXEMPT** 170.11(A)(4)

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

Amendment \_\_\_\_\_  
Renewal \_\_\_\_\_  
License \_\_\_\_\_

3. OTHER \_\_\_\_\_

Signed \_\_\_\_\_  
Date \_\_\_\_\_

RECEIVED BY LFDCB  
Date July 10 1999  
Low BB  
By \_\_\_\_\_  
Date Completed 7/21/99

A/so  
ru  
127032

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