



Office of the Mayor

CONSENT CALENDAR
July 13, 2010

To: Members of the City Council
From: Mayor Tom Bates
Subject: Appointment of Richelieu Hemphill to the Berkeley Housing Authority

RECOMMENDATION:

Adopt a Resolution approving the appointment of Richelieu Hemphill to the vacant position on the Berkeley Housing Authority (BHA).

BACKGROUND:

On May 22, 2007, the Berkeley City Council established a Berkeley Housing Authority (BHA) Board of Commissioners. State law mandates BHA commissioners, including successors, be appointed by the Mayor and confirmed by the City Council.

The Mayor's office followed an inclusive selection process to find a new commissioner for the position vacated by George Austin. The Mayor's staff publicized the Board openings by issuing a press release to local media, emailing the Mayor's Office email list, posting an announcement on the Mayor's website, asking housing-related community organizations to advertise the openings, and making announcements at City Council and BHA meetings.

I am recommending Richelieu Hemphill for the vacant position. Mr. Hemphill has a strong grasp of issues facing Berkeley residents. He is a long-time resident (32 years) of Berkeley and has a long history of civic participation, including but not limited to being appointed by former Vice Mayor Maudelle Shirek to serve on the safety commission in the 1990's, working with City's recreation programs in the 1980's and currently volunteering with Berkeley High School's Principal's Advisory Committee and the Community Partnership Academy. Mr. Hemphill's professional training and work experience is in the physical sciences.

FISCAL IMPACTS: None.

CONTACT PERSON: Mayor Tom Bates, 981-7100.

ATTACHMENT(S):

- 1: Resolution
- 2: Resume

RESOLUTION NO. ##,### N.S.

APPOINTMENT OF RICHELIEU HEMPHILL TO THE BERKELEY HOUSING AUTHORITY BOARD OF COMMISSIONERS PURSUANT TO HEALTH AND SAFETY CODE SECTION 34270

WHEREAS, the Council of the City of Berkeley, as the governing body of the City of Berkeley, declared itself to the Commissioners of the Berkeley Housing Authority (BHA) and appointed two tenant Commissioners pursuant to Health and Safety Code Section 34290; and

WHEREAS, on May 22, 2007 the Mayor appointed and the City Council by a majority vote confirmed the appointment of 5 Commissioners and 2 tenant Commissioners to the BHA Board pursuant to Health and Safety Code Section 34270; and

WHEREAS, the chair of the Berkeley Housing Authority Board of Commissioners accepted the resignation of George Austin, creating a vacancy on the Board; and

WHEREAS, the Mayor of the City of Berkeley is an office filled by election of the people; and

NOW THEREFORE, BE IT RESOLVED by the Mayor of the City of Berkeley that Richelieu Hemphill is hereby appointed to serve as a Commissioner of the Berkeley Housing Authority Board.

BE IT FURTHER RESOLVED by the Council of the City of Berkeley that it supports the Mayor's determination regarding the qualifications of Mr. Hemphill and hereby confirms the Mayor's appointment.

BE IT FURTHER RESOLVED by the Mayor of the City of Berkeley that, pursuant to Health and Safety Code Section 34272(a), Mr. Hemphill is appointed to serve a four-year term.

Richelieu Hemphill
Space Sciences Laboratory
University of California, Berkeley
Berkeley, CA 94720-7450
vox 510 642-6208, fax 510 643-9729
email: rhemp@ssl.berkeley.edu

Education:

1993: M.S. in Electrical Engineering, University of California at Berkeley
1979: S.B. in Electrical Engineering, Massachusetts Institute of Technology

Position and years at SSL:

2007-2010: Research & Development Engineer, Space Sciences Labs, UC Berkeley

Project Scientist to develop GaAs micro-channel plate (MCP) detectors. Designed and performed entire photolithographic process. Fabricated MCP including anisotropic etching and metallic evaporation along with physical test measurements of each individual sub-process.

1998-2006: Project Scientist to study and develop a chemical method to increase quantum efficiency of micro-channel plate detectors

Project Scientist to study, develop, design and fabricate Si anisotropically etched crystalline gratings for EUV/FUV spectrometer space flight applications

Filter and Grating Scientist for the Cosmic Hot Interstellar Plasma Spectrometer (CHIPS)

1996-1997: Project scientist to develop and fabricate micro-channel plate low noise detectors for the EUV/FUV space spectrometers UCB and EURD

1993-1997: Project scientist with sole responsibility for the EUV imaging photometer EUVIP, a space borne telescope meant to examine stellar flares and the temporal and spatial density of the ionosphere and magnetosphere

Semiconductor Lab & other physics experience:

Photolithography
LEDIT Mask Design
Karl Suss & Canon Mask Aligners
Crestec E-beam Nanometer Lithography System

HMDS Prime Oven
Headway Photo-resist Spinner
Wet Operation Sinks

Diffusion Furnace/Oven
Tystar Compound Semiconductor Oxidation Furnace
HeatPulse Rapid Thermal Annealing Oven

Thin Film Systems
NRC Evaporator
Hummer Sputtering System
Ion Beam Milling with the Veeco Microtech System

Metrology
Alpha-Step IQ Surface Profiler
Microscopes – Reichert Inspection Scope, Linewidth Measuring
Scope
Nanospec Film Thickness Measurement System

Physics:

Process research & fabrication of optics and electronics in Si, GaAs and GaP.
Image sensor fabrication (microchannel plate) and performance testing.
Diffraction theory applied to gratings and filters; Electromagnetic and Quantum theory applied to photon sensitive devices.
LBNL ALS calibration and standards beamline 6.3.2 spectrometric measurements.
High vacuum design, construction, test, repair & systems maintenance.

Selected Publications:

R. Hemphill, M. Hurwitz and M. G. Pelizzo, "Os atomic O protection by an Ir overcoat for increased ultraviolet grating efficiency," *Applied Optics*, 42 5149-5157 (2003).

R. Hemphill, "EUV optical component characterization for the cosmic hot interstellar plasma spectrometer," LBNL, Adv. Light Source, User Abstr. Tech. Rep., 2003.

R. Hemphill and J. Edelstein, "Chemical method to increase extreme ultraviolet microchannel-plate quantum efficiency. II. Analysis and optimization," *Applied Optics*, 42 2251-2256 (2003).

R. Hemphill and J. Edelstein, "Analysis of a chemical method to increase extreme ultraviolet microchannel-plate quantum efficiency," *SPIE*, 4854 577-582, (2002).

M. Hurwitz, R. Davis, S. Dawson, P. Dobson, W. Donakowski, A. Friedman, G. Gaines, J. Edelstein, R. Hemphill, J. Hoberman, J. Janicik, P. Jelinsky, M. Lampton, W. Marchant, M. Marckwordt, J. Mirczak, T. Sasseen, M. Sholl, O. Siegmund, M. Sirk, D. Stone, S. Sulack, E. Taylor, M. Veno, J. Woff, "Status of the cosmic hot interstellar plasma spectrometer (CHIPS) university-class explorer mission," SPIE, 4854, 319-328 (2002).

R. Hemphill, M. Pelizzo, M. Hurwitz "The extreme ultraviolet calibration of thin film Zr filters for the cosmic hot interstellar plasma spectrometer," Applied Optics, 41 4680-4685, (2002).

"A chemical method to increase extreme ultraviolet microchannel plate quantum efficiency," R. Hemphill, J. Edelstein and D. Rogers, Applied Optics, 36 1421-1426, (1997).

"Silicon diffraction Gratings for use in the far- and extreme- ultraviolet," R.L. Bristol, J.A. Britten, R. Hemphill, P. Jelinsky, M. Hurwitz, SPIE, 3114 580-585, (1997).

