

**Dr. ROLANDE R. HODEL**  
**German and US Citizen**

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**EDUCATION** PhD Chemistry; City University of New York, Queens College, May 2005  
BS and MS, Chemistry; University of Kansas, Lawrence Kansas 1989-1994  
Diplom Psychologist; University of Tuebingen, Germany, 1988, 1985  
Chemistry Laboratory Technician Certificate, BASF, Germany, 1978

**PROFESSIONAL EXPERIENCE**

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|---|-------------|
| <u>Adjunct Professor, State University of New York, Westchester Community College, SUNY/WCC.</u>  | 2009-today  |
| <u>Founder and President of AIDSfreeAFRICA, Inc. <a href="http://www.AIDSfreeAFRICA.org">www.AIDSfreeAFRICA.org</a></u><br>AIDSfreeAFRICA empowers people and organizations in Africa in the fight against HIV/AIDS. Our goal is to help establish facilities for the production of pharmaceuticals, in particular generic drugs for the African continent.   | 2005-today  |
| <u>Ph.D., City University of New York, Queens College</u><br>Dissertation Title: Synthesis and Photophysics of Dendronized Nanomaterials.<br>Synthesize dendrons and quantum dots. HPLC, UV/Vis, IR, photoluminescence (PL), thermogravimetric analysis (TGA).  | 2002-2005   |
| <u>Emisphere Technologies, Tarrytown NY</u><br><u>Senior Research Associate, Chemistry</u> <ul style="list-style-type: none"><li>• Synthesize compounds for oral delivery of otherwise injectable drugs.</li><li>• Manage laboratory equipment such as HPLCs. Oversee timely delivery of compounds to animal testing facility.</li></ul>  | 2000-2002   |
| <u>Pharmaceutical Discovery Corporation, Elmsford, NY.</u><br><u>Senior Scientist, Chemist</u> <ul style="list-style-type: none"><li>• Directing basic research program to develop self-assembling diketopiperazine drug delivery systems for the pulmonary delivery of otherwise injectable drugs such as insulin. Optimize synthesis for manufacturing and safe, efficient production.</li></ul>  | 1998- 2000  |
| <u>Nanocrystals Technology, Briarcliff Manor, NY.</u><br><u>Senior Research Chemist</u> <ul style="list-style-type: none"><li>• Planned, designed, executed various phases of research experiments required for the synthesis of new compounds such as Yttrium oxide and Zinc sulfide doped with rare earth metals. These materials are used in display technology such as TV and computer screens, flat panel display (FED), plasma displays, and laser technology.</li></ul>  | 1995 - 1998 |
| <u>University of Kansas, Lawrence, KS.</u><br><u>Research Assistant; Advisor: Dr. J A Heppert.</u> <ul style="list-style-type: none"><li>• Discovered new class of air sensitive tungsten oxo- and arylimido alpha-hydroxyl carboxylic acid compounds used as hydrogenation and enantiomer synthesis catalysts.</li></ul> <u>Research Assistant; Advisor: Dr. Daryl H. Busch.</u> <ul style="list-style-type: none"><li>• Developed organometallic Ni(II) and Cu(II) complexes, a type of dye used in the carbonless carbonpaper process under a grant from 3M.</li></ul> | 1989 - 1994 |
| <u>Karl Erhart Universitaet, Tuebingen, <u>Diplom Psychologist</u></u>  | 1981- 1988  |
| <u>Berufsausbildendes Naturwissenschaftliches Gymnasium, Ludwigshafen <u>Abitur</u></u><br>BASF, Ludwigshafen, Germany  | 1978 - 1981 |
| <u>Chemistry Laboratory Technician</u> <ul style="list-style-type: none"><li>• Synthesized and analyzed anthraquinone dyes. Batch and scale up chemistry.</li><li>• Assisted in the set up and operation of continuously running epoxy resin pilot plant.</li></ul>   | 1974 - 1978 |

## PRESENTATIONS AND PUBLICATIONS

- (1) *Synthesis and Photophysics of Dendronized Nanomaterials* Rolande R. Hodel. VDM Verlag Dr. Mueller Aktiengesellschaft, ISBN 978-639-13660-9
- (2) *Local Structures and X-ray Excited Photoluminescence in Tb-doped Y<sub>2</sub>O<sub>3</sub> Nanocrystals*. Soo, Y.I.; Huang, S.W.; Ming, Z.H.; Kao, Y.H.; Goldburt, E.T.; Hodel, R.R.; Kulkarni, B.S.; Veliadis, J.V.D.; Bhargava, R.N.
- (3) *Investigation of Local Structures around Luminescent Centers in Doped Nanocrystal Phosphors*. Soo, Y.I.; Huang, S.W.; Ming, Z.H.; Kao, Y.H.; Goldburt, E.T.; Hodel, R.R.; Kulkarni, B.S.; Bhargava, R.N.
- (4) *Rare Earth Doped Nanocrystalline Phosphors: Preparation, Characterization and Applications for Displays*. Goldburt, E.T.; Hodel, R.R.; Kulkarni, B.S.; Bhargava, R.N.; see MRS meeting book.
- (5) *Supramolecular Assemblies Involving Organometallic Free Acids*. Baroni T.E.; Heppert, J.A.; Hodel, R.R.; Morton, M.D. *Organometallics* 1996, 15, 4872-4879.
- (6) *Organometallic Free Acids of High Valent Tungsten*. Heppert, J.A.; Hodel, R.R.; Baroni, T.E.; Morton, M.D. *Abstract of Papers of the Am. Chemical Society* 1995, vol. 208, iss. April part I, pp 549 Inorg.
- (7) *Salicylate-Like Ligands in the Synthesis of Hydrogen-Bonding Tungsten Oxo, Arylimido and Acetylene Complexes*. Hodel, R.R.; Heppert, J.A.; Baroni, T.E.; Takusagawa, F. *Abstract of Papers of the American Chemical Society* 1994, vol. 208, iss. Aug. part I, pp 158 Inorg. 1994, (poster).

## ACADEMIC HONORS and AWARDS

- 2009 USA Astellas Foundation Award for research impacting global health  
2009 Finalist, Buckminster Fuller Institute Architectural Design Challenge  
1992 Departmental Summer Fellowship, University of Kansas.  
1991 Berger Fellowship, University of Kansas.  
1989 Direct Exchange Scholarship, DAAD Deutscher Akademischer Austausch Dienst, University of Kansas.

## PROFESSIONAL ACTIVITIES

- 2009 - 2010 Director at Large of the New York Section of the ACS.  
2009 - 2010 Associate, International Activities Committee, Subsection Africa  
2007 - today Volunteer for the American Chemical Society (ACS) speaker Bureau  
2007 Organize and chair a session on HIV/AIDS at the 2008 Middle Atlantic Research Meeting (MARM)  
2006 - today Director on the board of directors of Chemists Without Borders  
2006 - 2007 Director at Large of the New York Section of the ACS.  
1998 - today Treasurer, Westchester Chapter of the ACS, received ACS Service Award in 2006.  
1996 Organize and chair Symposium on Nanotechnology at MARM Conference.  
1995 - 1998 Director, Board of Directors Westchester Chapter of the American Chemical Society.  
1992 - today Member, American Chemical Society.  
1990 - 1994 Program Chair, Iota Sigma Pi, National Honor Society for Women in Chemistry, University of Kansas Chapter.

## OTHER ACTIVITIES

- 2000-present Ongoing training and development utilizing programs at Landmark Education Corporation, NYC  
2003-present United Nation Representative, DPI/NGO/ECOSOC of Servas International, Peace organization.