

## Elizabeth C. Theil

### ABBREVIATED CURRICULUM VITAE

#### Education

Pre-college: Public Schools of New York City  
Undergraduate: Cornell University (B.S., Bacteriology)  
Doctoral: Columbia University (Ph.D., Biochemistry)  
Postdoctoral: Columbia, Florida State Universities (part-time due to family obligations)

#### Professional Appointments

1971-1988: Asst., Assoc , Full Professor of Biochemistry, North Carolina State University  
1988-1998: The University Professor of Biochemistry and Physics  
1998-1999 \*Scientist, Children's Hospital Oakland research Institute  
1999-Present \*Senior Scientist, Children's Hospital Oakland research Institute  
2004-Present Professor (adj.) Nutritional Sciences and Molecular Toxicology, University of California, Berkeley

\* To develop translational research component for iron in medicine and nutrition

#### Honors

NIH Pre-doctoral Award; North Carolina State University Research Award;  
NIH MERIT Award , Li Ka Shing Foundation – UC-Berkeley: Women in Science Research Award; O. Max Gardner Award – Consolidated University of North Carolina; Olin-Garvan Medal -American Chemical Society, Fellow, American Association for the Advancement of Science

**Research:** Ferritin Structure, Function, Genetic Regulation and Absorption (Humans and other animals, Plants and Bacteria); program funded by NSF or NIH continuously since 1971.

#### Teaching

##### Classroom:

Graduate: Introductory Biochemistry; Biochemistry of Specialized Cells; Undergraduate/  
Graduate: Introductory Laboratory Techniques, Bioinorganic Chemistry  
Research Mentoring: PhD and Post PhD or MD- 32; MS and pre Baccalaureate: > 30;  
>80% remain in science-academe, government laboratories or biomedical industry

**Publications:** More than 180 in refereed journals; Invited Presentations (Annual average:):  
National= 4; International =3 )

2012 Publications

**2011 review-**Theil, E.C. (2011) Ferritin protein nanocages use ion channels, catalytic sites, and nucleation channels to manage iron/oxygen chemistry. **Curr Opin Chem Biol.** 15:304-311.

**Patents:** Awarded -2; filed- 4.

#### Administrative Activities

University Committees .NCSU: Director: Honors programs (half-time administrative appointment), Chair: University Research Committee, Committee on Research Universities-CRU (communicates the special role of research universities in higher education, Radiation Protection Council (responsible for budget, personnel and reactor safety), Pres.: Sigma Xi, Member: Chancellor Search, Provost Search and University Mission Committees. Departmental/Institute Committees: NCSU: Chair: Faculty Search (Replaced 50% of current Faculty: recruitment and support development), Graduate Admission, Tenure and Promotion, and Resource Allocation; UC-Berkeley, NST Dept Seminar Chair. CHORI (Res. Inst). Faculty Development; Seminar, Postdoctoral Mentoring

### **Selected Professional Activities**

Editorial Boards: American Journal of Clinical Nutrition, Accounts of Chemical Research, Biochemistry and Molecular Biology Education, Biometals, Journal of Biological Inorganic Chemistry, Journal of Biological Chemistry.

#### Professional Service: International and National

*American Society of Biochemistry and Molecular Biology*: Committees on Education (Chair), Membership and Finance, Task Force on Women Biochemists in Academe, Chair; Women In academe Task force-Chair

*American Chemical Society*: Committees on Science and on Professional Training, Council.

*National Institutes of Health (US)*: DRG/CSR Advisory Committee, BMT Advisory Committee;

*Other*: Gordon Research Conferences: Council, Chair Metals in Biology B ordon Conference, International BioIron Society : Founding Committee, Meeting Chair; Society for Bioinorganic Chemistry- President, Council member. .

Community Committees: Founding member NC PAGE (Parents for Advancement of Gifted Education), Advisory Board: Raleigh, NC Science and Math Magnet High School, Parents. Advisory Board: NC School of Science and Math, and President: NC Research Triangle American Women in Science.

### **Textbooks.**

1-Editor: "*Principles of Chemistry in Biology*", a companion to introductory chemistry textbooks, ACS and Oxford University Press, Washington D.C. and New York, NY,

2-"*Bioinorganic Chemistry*" Valentine, J, Gray, H, Bertini, I, Editors; Chapter on BioIron and Ferritin, 1st and 2<sup>nd</sup> Editions, University Books, Mill Valley, CA