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**CURRENT APPOINTMENT**

Senior Research Scientist in Chemistry, Director and Faculty Supervisor of the X-ray facilities. Department of Chemistry, University of Florida, 2001-present.

Co-Editor of Acta Crystallographica Section E, Structure Communications journal. 2001 – present.

**PREVIOUS APPOINTMENTS**

Associate Research Scientist in Chemistry, Director and Faculty Supervisor of the X-ray facilities. Department of Chemistry, University of Florida, 1995-2001.

Assistant Research Scientist, Director in Chemistry and Faculty Supervisor of the X-ray facilities. Department of Chemistry, University of Florida, 1990-1995.

Postdoctoral Fellow, Department of Chemistry, The University of Texas at Austin. Mentors: professor Raymond E. Davis & professor Stanley H. Simonsen. 1986-1990.

**PERSONAL** Two children: Nicholas Khalil and Alisaar Anne.

**RELIGION** Greek “Royal” Catholic

**EDUCATION**

Ph.D (Inorganic Chemistry (major), Analytical Chemistry (minor). Structural Chemistry, X-ray Crystallography), Louisiana State University, 1985 (with Professor Stephen F. Watkins).

C.A.P.E.S (equivalent to an M.S. degree in Chemistry Education), Lebanese National University, 1978.

B.S. in Chemistry Education, Lebanese National University, 1977.

**AWARDS**

Full scholarship to study for the Ph.D. in chemistry in the United States, awarded by the Lebanese National University. This scholarship is awarded once a year in chemistry and to only one student, based upon the best graduate and undergraduate performances.

Full scholarship to study for the B.S. and MS. in chemistry, awarded by the Lebanese National University.

**GRANTS & CONTRACTS**

Proposal for the acquisition of a  
micro-crystal and protein diffraction  
facility at sector 10 (MR-CAT) of  
the Advanced Photon Source:  
Joint to NSF and NIH (1998) (not funded)

\$482,000

Proposal for the Purchase of a Single-Crystal and a Powder X-ray Diffractometers: National Science Foundation (1994)	\$485,000
Crystals with non-linear optical properties: UF Department of Sponsored Research (1992)	\$25,000
Computation system for X-ray Crystallography: UF Department of Sponsored Research (1991)	\$10,015
Collaborative contracts	\$31,000

### **SELECTED PUBLICATIONS**

- 317) "Mixed 3d/4d and 3d/4f metal clusters: Tetranuclear (Fe<sub>2</sub>M<sub>2</sub>III)-M-III (M-III = Ln, Y) and (Mn<sub>2</sub>M<sub>2</sub>III)-M-IV (M = Yb, Y) complexes, and the first Fe/4f single-molecule magnets". Murugesu, M, Mishra, A, Wernsdorfer, W, Abboud, KA, Christou, G (2006). *Polyhedron*, 2592), 613-625.
- 316) "Synthesis and structural investigation of tungsten imido amidinate and guanidinate complexes". Wilder, CB, Reitfort, LL, Abboud, KA, McElwee-White, L (2006). *Inorg. Chem.* 45(1), 263-268.
- 315) "Synthesis and reactivity of molybdenum(IV) complexes with alkyl and aryl isocyanides". Ison, EA, Ortiz, CO, Abboud, K Boncella, JM (2005). *Organometallics* 24926), 6310-6318.
- 314) "(NH<sub>4</sub>)<sub>3</sub>CrO<sub>8</sub>: A new S=1/2 system exhibiting no magnetic transition down to 0.3 K". Harter, A, Cage, B, Nguyen, P, Abboud, KA, Dalal, NS (2005). *Polyhedron*, 24916-17), 2350-2354.
- 313) "Two isomeric [Mn<sub>12</sub>O<sub>12</sub>(OMe)<sub>2</sub>(O<sub>2</sub>CPh)<sub>16</sub>(H<sub>2</sub>O)<sub>2</sub>](<sup>2-</sup>) single-molecule magnets and a Mn-III polymer prepared by a reductive aggregation synthetic route". Tasiopoulos, AJ, Wernsdorfer, W, Abboud, KA, Christou, G (2005). *Polyhedron*, 24(16-17), 2505-2512.

### **RESEARCH EXPERIENCE**

#### **University of Florida**

Director and Faculty Supervisor of the X-ray facilities in the Department of Chemistry at the University of Florida. Recently conducted first experiment of x-ray diffraction at the Advanced Photon Source (Argonne) collecting data on small molecule crystals and protein crystals and using Insertion device and Bending magnet sources.

#### **X-ray Diffractometers:**

SMART PLATFORM with a CCD area detector driven by a pentium PC. SMART and ASTRO for data collection, SAINT for data reduction, and SHELXTL V5 for structure solution, refinement and graphics.

P3m/e-LT-1 driven by a NOVA4 computer, upgraded to VAX control in 1991, upgraded to PC control in 1993. Data collection, structure solution and refinement and graphics. SHELXTL plus on VAXstation 3100.

Syntex P1 driven by a NOVA4 computers. Data collection, structure solution, refinement and graphics (SHELXTL on a Data General Eclipse desktop, molecular graphics (XFG in SHELXTL); SHELXTL plus on VAXstation 3100.

#### **Computer systems & software:**

Silicon Graphics Indy computer with unix Operating system, VAXstation 3100 with VMS/VAX operating system, several Personal computers and Macintoshes. SHELXTL running on the Indy, VAX and Microsoft NT PC's. Cambridge Structural Database running on the VAX and Indy.

***University of Texas at Austin***

Postdoctoral fellow: March 1986 - August 1990. Single Crystal X-Ray Diffraction, data collection (SYNTEX P21-LT1 driven by NOVA4 computer; NICOLET R3m/V-LT2) structure solution and refinement (SHELX76, SHELX86 and MULTAN on the Dual Cyber 170/750 with EMS; SHELXTL PLUS on Vaxstation II minicomputer for the R3m/V data. VAX/VMS operating system and two graphics work stations controlled by NEC personal computers. Molecular graphics (XP). MS-DOS operating system. PHILIPS, vertical scanning powder diffraction. Cambridge structural database. Macintosh personal computer for graphics and word processing. ORTEP program for molecular drawing and several Fortran programs for molecular calculations on the Dual Cyber system. Professors S.H. Simonsen and R.E. Davis, mentors.

***PROFESSIONAL AFFILIATIONS***

American Crystallographic Association  
American Chemical Society  
American Association for the Advancement of Science  
American Lebanese Engineering Society (ALES)  
Member of the Scholarship Committee (ALES)

***HONORARY SOCIETIES***

Phi Lambda Upsilon (Chemistry Honor Society)  
Beta Alpha Phi (International Honor Society)