

CHEN DAI

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EDUCATION

- Ph.D.** (GPA: 3.9/4.0) Expected:
Jul 2015
University of California Davis (UCD), Davis, CA
- Major: Material Science and Engineering
 - Courses: **Adv Top Struc Mat, Adv Thermo Slids, Trans Phenomena, Adv Func Prop, Adv Mech Prop, Electron Microscopy**
- M.S.** (GPA: 3.9/4.0) Aug 2011
Worcester Polytechnic Institute (WPI), Worcester, MA
- Major: Material Science and Engineering
 - Courses: **Principles of MSE, Phase transformation in metals, Corrosion & corrosion control, Ceramics & glass for engineering, Analysis methods in material engineering, Physical metallurgy, Analysis & control of material, Advanced thermodynamics, Crystallography, diffraction, & microscopy**
- B.S.** (GPA: 3.7/4.0) Jul 2009
University of Science and Technology Beijing (USTB), Beijing, China
- Major: Material Physics
 - Courses: **Quantum Physics, Statistical Physics, Solid-State Physics, Mathematical Physic Equations**

EXPERIENCE

- Research Assistant** Jan 2012- Jul 2012
Victaulic Company, Advisor: Prof. Diran Apelian and Gene Miller
- Toughness of ductile iron at low temperatures
- Research Assistant** Jul 2010 - Feb 2012
Center for Resource Reuse and Recycling (CR3), WPI, Advisor: Prof. Diran Apelian
- Development of aluminum dross based material for engineering applications
- Research /Teaching Assistant** Jan 2010 - Jun 2010
Center for Heat Treating Excellence (CHTE), WPI, Advisor: Prof. Richard J. Sisson
- Revealing prior-austenite grain boundary in steels
- Research Assistant** Sep 2008 - Jul 2009
Crystal defects lab, USTB, Advisor: Prof. XM Wang
- Precipitation behavior of steels with various copper during continuous cooling
- Intern** Jun 2008 - Aug 2009
Inspection & Testing Center, General Research Institute for Nonferrous Metals
- Metalworking trainee** May 2007 - Aug 2007
Machine Shop, USTB

PUBLICATION

- X. Wang, C. Li, C. Zheng, **C. Dai**, "The Precipitation Behavior Of Copper During Continuous Cooling," 8th National Conference on Solidification and Phase Transformation, 2009, Shanghai.
- **Chen Dai**, Diran Apelian, "Reuse of Al Dross as Engineered Products," 13th International Conference on Aluminum Alloys (ICAA13), June 2012, Pittsburgh, PA.

AWARDS AND OTHER EXPERIENCE

- Graduate student leader for ASM material Camp New England 2011 (ASMMCN2011) 2010 - 2011
reference: Tom Auten, chair of ASMMCN2011
- Awarded membership of Alpha Sigma Mu Professional Honor Society Feb 2011
- People's Scholarship 2007 - 2008, 2008 - 2009
- VP of Youth Volunteer Association of USTB 2005 - 2009
- Volunteer at Xiangshan Nursing Home
- Narrator in China Science and Technology Museum
- Volunteer in 2008 Olympic Games and Paralympic Games