QICHEN SONG

EDUCATION

Huazhong University of Science and Technology (HUST), 2011.09-present

Major: Thermal Energy and Power Engineering Degree: Bachelor of Engineering, expected 2015.06 Overall GPA: 92.2/100 Overall Rank: 1/366 **Standard Tests**

TOFEL: 107 (R29 L30 S23 W25) GRE: V152+Q170+AW4.0

RESEARCH EXPERIENCE

Research on coupling between different vibrational modes of graphene

2014.09-present

Advisor: Prof. Nuo Yang, Dr. Meng An

Nano Heat Group

Nano Heat Group

- Modeling thermal transport by nonequilibrium molecular dynamics (NEMD)
- Calculating temperature gradient in separated directions with varying lengths
- Investigating size-dependent effect of the coupling between different vibration modes

Research on the thermal conductivity of folded graphene

2013.11-present

Advisor: Prof. Nuo Yang
• Simulating the evolution process by NEMD

- Designing innovative structure to reduce the thermal conductivity
- Modifying the parameters of structure to obtain a converged outcome

Research on the temperature and flow field analysis of sapphire crystal growth

2013.08-2013.11

Advisor: Prof. Haisheng Fang

Multiscale Process Modeling Lab

- Analyzed the velocity field by using Computational Fluid Dynamics software
- Used Discrete Phase Model to investigate the distribution of inert impurities
- Investigated the relationship between the quality of the sapphire and the rotation speed

Team leader on designing the device utilizing wave energy in small watersheds

2013.05-2013.08

Advisor: Prof. Jun Xiang

- Designed and optimized the shape of the floating part
- Designed the core component to collect and convert the wave energy
- Made the prototype of the device

PATENT

Q.C. Song et al, "An electricity generating device by utilizing small wave energy" (submitted 2014)

HONORS AND AWARDS

National Scholarship (Three times)

2012,2013,2014

Top 1% among all competitors, awarded by Ministry of Education of PRC

Outstanding Student of Huazhong Univ. of Sci. & Tech.

2012-2014

Top 1% among all 2nd & 3rd year students, one of the top honor for undergraduates

Merit Student (Three times)

2012,2013,2014

Top 4% among all competitors, issued by HUST

Excellent Award in the 3rd National Water Resource Innovation Design Competition

2013.07

INTERNSHIP EXPERIENCE

Summer Intership at Shangu Power Co.,Ltd., Xi'an

2014.06

- · Learned the manufacturing process of axial compressor
- Learned the CFD calculation of compressor and turbine design

COMPUTER SKILLS