I see one our largest successes as the quality of the human resources our group produces through our alumni. These human resources will continue to make contributions to society far into the future both through their work and through the other people that they develop and mentor, and with whom they collaborate. Defining “Alumni” for our group is difficult, as I have worked informally and co-authored papers with graduate students for whom I am not their adviser, and worked informally with many undergraduate students. To draw a sharp boundary, I am only including graduate students who graduated with me as an adviser and undergraduate students who have kept in touch with me after graduating and I am not advising as a graduate student.

Derek Baker
2017 Graduates

Evan JOHNSON

Degree: METU ME MSc, 2017
Thesis Title: Conceptual design and heat transfer investigation of a dense granular flow solar receiver
Supervisor: Prof. Dr. Derek BAKER
Co-Supervisor: Assoc. Prof. Dr. İker TARI
Note: After graduating Evan entered the PhD program at METU.

Rahul SINGH

Degree: METU ME MSc, 2017
Thesis Title: Modelling and performance analysis of a linear Fresnel collector for process heat generation for an ice cream factory in Konya.
Supervisor: Assoc. Prof. Dr. Almıla Güvenç YAZICIOĞLU
Co-Supervisor: Assoc. Prof. Dr. İker TARI

2016 Graduates
- No Graduates –

2015 Graduates

Mine KAYA

Degree: METU ME MSc, 2015
Thesis Title: Numerical comparison and sizing of sensible and latent thermal energy storage for compressed air energy storage
Supervisor: Assoc. Prof. Dr. İker TARI
Co-Supervisor: Assoc. Prof. Dr. Derek BAKER
Note: After graduating Mine entered the PhD program at The University of New Orleans.

Onur ÖZKAN

Degree: METU ME MSc, 2015
Thesis Title: Design and modeling of a novel rectifier with ceramic hollow fiber membrane contactor for miniaturized absorption cooling devices
Supervisor: Assoc. Prof. Dr. Almıla Güvenç YAZICIOĞLU
Co-Supervisor: Assoc. Prof. Dr. Derek BAKER
Note: After graduating Onur entered the PhD program at The University of Texas-Austin.
2014 Graduates

Tufan AKBA

Degree: METU ME MSc, 2014
Thesis Title: Modelling, transient simulation and parametric study of parabolic trough collector with thermal energy storage.
Supervisor: Assoc. Prof. Dr. Almila Güvenç YAZICIOĞLU
Co-Supervisor: Assoc. Prof. Dr. Derek BAKER
Note: After graduating Tufan continued his job at Aselsan.

Nima BONYADI

Degree: METU ME MSc, 2014
Thesis Title: Theoretical and experimental investigation on characteristics of adsorption cooling systems using advanced porous materials.
Supervisor: Assoc. Prof. Dr. Cemil YAMALI
Co-Supervisor: Assoc. Prof. Dr. Derek BAKER
Note: After graduating Nima entered the PhD program at METU.

Arash KARSHENASS

Degree: METU ME MSc, 2014
Thesis Title: Modelling and transient analysis of a hybrid liquid desiccant cooling system.
Supervisor: Assoc. Prof. Dr. Cemil YAMALI
Co-Supervisor: Assoc. Prof. Dr. Derek BAKER
Note: After graduating Arash entered the PhD program at METU.

Arsalan TARIQ

Degree: METU NCC SEES MSc, 2014
Thesis Title: Methodology to size large scale solar PV installations for institutions with unidirectional metering.
Supervisor: Assoc. Prof. Dr. Derek BAKER
Note: After graduating Arsalan continued as a Teaching Assistant at METU NCC.

Koray TAŞTANKAYA

Degree: METU ME MSc, 2014
Thesis Title: Development of a methodology for sizing and assessment of wind integrated advanced adiabatic compressed air energy storage system.
Supervisor: Assoc. Prof. Dr. İker TARI
Co-Supervisor: Assoc. Prof. Dr. Derek BAKER
Note: After graduating Koray continued his job at Aselsan.
2013 Graduates

Mesru ALTINOZ

Degree: METU ME MSc, 2013
Thesis Title: Experimental Investigation of Heat Transfer Characteristics in Micro-Channels
Supervisor: Assoc. Prof. Dr. Almila YAZICIOĞLU
Co-Supervisor: Assoc. Prof. Dr. Derek BAKER
Note: After graduating Mesru entered the Turkish Airlines Pilot Training Program.

Erdem Emre PINAR

Degree: METU ME MSc, 2013
Supervisor: Assoc. Prof. Dr. Derek BAKER
Co-Supervisor: Assoc. Prof. Dr. Eray UZGÖREN, METU NCC
Note: After graduating Erdem continued his job at Aselsan.

Can UÇKUN

Degree: METU ME MSc, 2013
Thesis Title: Modeling and Simulations of Direct Steam Generation in Concentrating Solar Power Plants using Parabolic Trough Collectors
Supervisor: Assoc. Prof. Dr. Derek BAKER
Note: After graduating Can began his Turkish military service.

Berk Can DUVA

Degree: METU ME BSc, 2013
Note: Berk Can entered the MSc Program at Istanbul Technical University in the Fall 2013.

Enes GOKKUS

Degree: METU ME BSc, 2013
Note: Enes entered the MSc Program at the University of Texas-Austin in the Spring 2013.
Beybin İLHAN

Degree: METU ME BSc, 2013
Note: Beybin entered the MSc Program at Bogazici University in the Fall 2013.

Ahmet MAZACIOĞLU

Degree: METU ME BSc, 2013
Note: Ahmet entered the MSc Program at the University of Michigan in the Fall 2013.

Bahar ÖNER

Degree: METU ME BSc, 2013
Note: Bahar entered the MSc Program at Bogazici University in the Fall 2013.

Efe SUREKLİ

Degree: METU ME BSc, 2013
Note: Efe entered the MPhil Program at the University of Cambridge in the Fall 2013.
2012 Graduates

Ahmet CAĞLAR

Degree: METU ME PhD, 2012
Dissertation Title: Design and Construction of the Adsorbent Bed of a Thermal Wave Adsorption Cooling Cycle
Supervisor: Assoc. Prof. Dr. Cemil YAMALI
Co-Supervisor: Assoc. Prof. Dr. Derek BAKER
Note: Ahmet started as an Assistant Professor at Akdeniz University after graduating.

Serhat BİLYAZ
Degree: METU ME BSc, 2012
Note: Mine entered the MSc Program at METU in the Fall 2012.

Mine KAYA
Degree: METU ME BSc, 2012
Note: Mine entered the MSc Program at METU in the Fall 2012.

Can PEHLİVANTÜRÜK
Degree: METU ME BSc, 2012
Note: Can entered the MSc Program at the University of Texas-Austin in the Fall 2012.
2011 Graduates

İsmail SOLMUŞ

Degree: METU ME PhD, 2011
Thesis Title: Modeling of heat and mass transfer in porous media and its application to the beds in adsorption cooling cycles.
Supervisor: Assoc. Prof. Dr. Cemil Yamalı
Co-Supervisor: Prof. Dr. Bilgin KAFTANOĞLU, Atilim University.
Note: İsmail started as an Assistant Professor at Atatürk University. Although I was not İsmail’s adviser, we co-authored 4-journal articles, and therefore included him.

Kerem Çepni

Degree: METU ME BSc, 2011
Thesis Title: A Methodology for Designing Tonpiliz-Type Transducers.
Supervisor: Assoc. Prof. Dr. Derek BAKER
Co-Supervisor: Prof. Dr. Çalışkan
Note: Kerem entered the PhD program at Loughborough University in the Fall 2011.

Onur Demirer

Degree: METU ME BSc, 2011
Note: Onur entered the MSc Program at The University of Texas-Austin in the Fall 2012.
2010 Graduates

Ertan AĞAR

Degree: METU ME MSc, 2010
Thesis Title: 2-D Modeling of a Proton Exchange Membrane Fuel Cell.
Supervisor: Ass’t Prof. Dr. Derek BAKER
Co-Supervisor: Ass’t Prof. Dr. Mehmet SANKIR, TOBB ETU.
Note: Ertan started the PhD program at Drexel University in the Spring 2010.

Onur TAYLAN

Degree: METU ME MSc, 2010
Thesis Title: Numerical Modeling and Performance Analysis of Solar-Powered Ideal Adsorption Cooling Systems
Supervisor: Assoc. Prof. Dr. Derek BAKER
Co-Supervisor: Prof. Dr. Bilgin KAFTANOĞLU, Atilim University.
Note: Onur started the PhD program at The University of Texas-Austin in the Fall 2010.

Yasemin USTA

Degree: METU ME MSc, 2010
Thesis Title: Simulations of a large scale solar thermal power plant in Turkey using parabolic trough collectors.
Supervisor: Assoc. Prof. Dr. Derek BAKER
Co-Supervisor: Prof. Dr. Bilgin KAFTANOĞLU, Atilim University.
Note: After graduating Yasemin continued her job at Anıl Asansör Ltd. Şti.
2008 Graduates

Derviş Emre DEMIROCAK

Degree: METU ME MSc, 2008
Thesis Title: Thermodynamic and Economic Analysis of a Solar Thermal Powered Adsorption Cooling System.
Supervisor: Ass’t Prof. Dr. Derek BAKER
Co-Supervisor: Prof. Dr. Bilgin KAFTANOĞLU, Atilim University.
Note: Emre started the PhD program at The University of South Florida in the Fall 2009.

Tuğer Emre DEMIRCI

Degree: METU ME BSc, 2008
Note: After graduating Emre started his career at Roketsan.

2006 Graduates

Murat ATEŞ

Degree: METU ME BSc, 2006
Note: Murat entered the MSc program at The University of Texas-Austin in the Fall 2006.