



EMRE S. TASCI

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Dept. Physics Engineering
Hacettepe University, Beytepe Campus
06800 Cankaya / Ankara
Turkey

PERSONAL INFORMATION

Place & Date of Birth : Istanbul, 1977.

Marital Status : Married, with one child.

EDUCATION

B.S. : Istanbul Technical University, Physics Engineering Department (2000).

M.S. : Middle East Technical University, Physics Department (2002).

Ph.D. : Middle East Technical University, Physics Department (2007).

[The dissertation theses are available from: <http://www.emresururi.com/page.php?page=docs#theses>]

Post-Doctoral Research:

- TUDelft, Materials Science and Engineering Dept. (11/2007 - 11/2009)
- UPV, Condensed Matter Physics Dept. Bilbao Crystallographic Server (Lead Developer) [<http://www.cryst.ehu.es>] (12/2009 – 12/2012)
- METU, Physics Dept. (01/2013 – 01/2015)
- Hacettepe University, Physics Eng. Dept. (Assist. Prof., 02/2015 –)

LANGUAGES

English : Fluent (TOEFL 270/300, KPDS 95/100).

Spanish : Intermediate (EHU/UPV Language Center Certificate).

Turkish : Native language.

Computing Languages

C++, MPI, FORTRAN, Perl, PHP, MySQL, HTML/XML.

Also coded simple applications and scripts in various other languages (ie. Java, Tcl/Tk, Python, etc..) when called for. Can adapt and debug new languages and methods easily.

ACADEMIC

2000 B.S. :

Under the advisorship of Prof. Nese Ozdemir, in the area of quantum field theory, “Creation of Particles in Vacuum with Moving Boundary Conditions” titled completion thesis.

2002 M.S. :

Under the advisorship of Prof. Sakir Erkoç, in the area of molecular simulations, “Simulation of Casimir Effect for Various Geometries” titled M.S. thesis.

2007 Ph.D. :

Under the advisorship of Prof. Sakir Erkoç, in the area of molecular simulations, “Generation and Simulations of Nanostructures of Cage Structures” titled Ph.D. thesis (*METU Thesis of the year*).

2009 Ph.D. degree was homologated by the EHU/UPV Rectorate.

2012 Associate professorship (“profesorado adjunto”) title compliance was accredited by the UNIBASQ foundation to be fit for Basque Universities.

2013 A 2 years post-doctoral fellowship has been awarded by the Turkish Scientific and Technological Research Council of Turkey (TUBITAK).

Past Research Areas: *In silico* construction and Molecular Mechanics & Molecular Dynamics Simulations of nanotubes, nanotoroids, nanogears and nanojunctions; Parallelization of optimization and simulation applications (with Prof. Sakir Erkoç, METU). Animations of a nanogear simulation study can be downloaded from <http://www.emresururi.com/videos/>.

Transformation Toughening and DataMining; Discovery of new stable compounds via Materials Informatics and ab-initio calculations (with Assoc. Prof. Marcel Sluiter, TUDelft).

Group theory applications to solid state; development of new programs/tools for the Bilbao Crystallographic Server (<http://www.cryst.ehu.es>); Phase transformations and structure analysis (with Prof. J. Manuel Perez-Mato and Prof. Moisés I. Aroyo, EHU/UPV).

Current Research Areas: Discovery and analysis of novel materials via informatics (focusing on multiferroics, carbon structures and rare phase transitions).

SEMI – ACADEMIC

2000 – 2007 Research Assistant at Physics Dept., METU

2002 – 2007 Department’s Computer Coordinator, METU

2010 – 2013 System Administrator of the Bilbao Crystallographic Server, UPV

EDUCATIONAL/FORMATIONAL PARTICIPATIONS

2000 – 2002 Setting up and coordination of the Computerized Physics Laboratory, METU

2007 – 2009 Construction and maintenance of the materials database for the Virtual Materials Laboratory group, TUDelft

2009 - Development of scientific programs & tools to be used for educational purposes as the lead developer for the Bilbao Crystallographic Server EHU/UPV

COURSES GIVEN

PHYS743: Computational Symmetry in Solid State [Graduate/METU]

FIZ137: Physics I [Undergrad/Hacettepe Univ.]

FIZ103: Physics I Lab. [Undergrad/Hacettepe Univ.]

FIZ138: Physics II [Undergrad/Hacettepe Univ.]

FIZ104: Physics II Lab. [Undergrad/Hacettepe Univ.]

FIZ371: Scientific and Technical Calculations [Undergrad/Hacettepe Univ.]

FIZ409: Structure and Properties of Matter [Undergrad/Hacettepe Univ.]

FIZ475: Design in Engineering Physics [Undergrad/Hacettepe Univ.]

FIZ631: Computational Discrete Groups in Physics [Graduate/Hacettepe Univ.]

PAPERS PUBLISHED IN INTERNATIONAL REFEREED JOURNALS

E.S. Tasci and S. Erkoç, "Simulation of the Casimir-Polder Effect for Various Geometries", *Int. J. Mod. Phys. C* **13**(7) (2002) 979-985.

[DOI : [10.1142/S0129183102003723](https://doi.org/10.1142/S0129183102003723)]

S. Erkoç, O.B. Malcıođlu, and E. Tasci, "Structural and electronic properties of single-wall GaN nanotubes: Semi-empirical SCF-MO calculations", *J. Mol. Struct. (Theochem)* **674** (2004) 1-5. [DOI : [10.1016/j.theochem.2003.12.020](https://doi.org/10.1016/j.theochem.2003.12.020)]

E. Yazgan, E. Tasci, and S. Erkoç, "An Algorithm to Generate Toroidal and Helical Cage Structures Using Pentagons, Hexagons and Heptagons", *Int. J. Mod. Phys. C* **15**(2) (2004) 267-278. [DOI : [10.1142/S0129183104005656](https://doi.org/10.1142/S0129183104005656)]

E. Yazgan, E. Tasci, O.B. Malcıođlu, and S. Erkoç, "Electronic Properties of Carbon Nanotoroidal Structures", *J. Mol. Struct. (Theochem)* **681** 231-234 (2004). [DOI : [10.1016/j.theochem.2004.05.029](https://doi.org/10.1016/j.theochem.2004.05.029)]

E. Tasci, E. Yazgan, O.B. Malcıođlu, and S. Erkoç, "Stability of Carbon Nanotori Under Heat Treatment: Molecular-Dynamics Simulations", *Fullerenes, Nanotubes, and Carbon Nanostruct.* **13**(2) (2005) 147-154. [DOI : [10.1081/FST-200050695](https://doi.org/10.1081/FST-200050695)]

E. Tasci, O.B. Malcıođlu, and S. Erkoç, "Junction Formation in Crossed Nanotubes Under Pressure: Molecular-Dynamics Simulations", *Int. J. Mod. Phys. C* **16**(9) (2005) 1371-1377. [DOI : [10.1142/S0129183105007960](https://doi.org/10.1142/S0129183105007960)]

O.B. Malcıođlu, E. Tasci, and S. Erkoç, "Structural and molecular electronic properties of BN ring doped single-wall carbon nanotubes", *Physica E* **28**(3) (2005) 296-308. [DOI : [10.1016/j.physe.2005.03.023](https://doi.org/10.1016/j.physe.2005.03.023)]

O.B. Malcıođlu, E. Tasci, and S. Erkoç, "Single Wall Bamboo Shaped Carbon Nanotube: A Molecular Dynamics and Electronic Study", *Int. J. Mod. Phys. C* **17**(2) (2006) 187-196. [DOI : [10.1142/S012918310600887X](https://doi.org/10.1142/S012918310600887X)]

E. Tasci and S. Erkoç, "An algorithm for constructing various kinds of nanojunctions using zigzag and armchair nanotubes", *J. Nanosci. Nanotech.* **7**(4-5) (2007) 1653-1661. [DOI: [10.1166/jnn.2007.450](https://doi.org/10.1166/jnn.2007.450)]

E. Tasci, O.B. Malcıođlu, and S. Erkoç, "Structural properties of carbon nanogears", *Fullerenes, Nanotubes, and Carbon Nanostruct.* **16**(1) (2008) 30-39. [DOI : [10.1080/15363830701779307](https://doi.org/10.1080/15363830701779307)]

E. Tasci and S. Erkoç, "Molecular Mechanics and Molecular Dynamics Simulations of Carbon Based Nanogears", *J. Comput. Theor. Nanos.* **6** 921-925 (2009). [DOI: [10.1166/jctn.2009.1126](https://doi.org/10.1166/jctn.2009.1126)]

E.S. Tasci, M.H.F. Sluiter, A. Pasturel, P. Villars, "Liquid structure as a guide for phase stability in the solid state: discovery of a stable compound in the Au-Si alloy system", *Acta Mater.* **58**(2) 449-456 (2010). [DOI: [10.1016/j.actamat.2009.09.023](https://doi.org/10.1016/j.actamat.2009.09.023)]

A. Pasturel, E.S. Tasci, M.H.F. Sluiter, N. Jakse, "Structural and dynamic evolution in liquid Au-Si eutectic alloy by *ab-initio* molecular dynamics", *Phys. Rev. B* **81** 140202 (2010). [DOI: [10.1103/PhysRevB.81.140202](https://doi.org/10.1103/PhysRevB.81.140202)]

E.S. Tasci, M.H.F. Sluiter, A. Pasturel, N. Jakse, "Existence of a stable compound in the Au-Ge alloy system", *Phys. Rev. B* **81** 172202 (2010). [DOI: [10.1103/PhysRevB.81.172202](https://doi.org/10.1103/PhysRevB.81.172202)]

- C. Capillas, E.S. Tasci, G. de la Flor, D. Orobengoa, J.M. Perez-Mato, M.I. Aroyo, "A new computer tool at the Bilbao Crystallographic Server to detect and characterize pseudosymmetry", *Z. Kristallogr.* **226**(2) 186-196 (2011).
[DOI: [10.1524/zkri.2011.1321](https://doi.org/10.1524/zkri.2011.1321)]
- M.H.F. Sluiter, D. Simonovic, E.S. Tasci, "Materials databases for the computational materials scientist", *Int. J. Miner. Metall. Mater.* **18**(3) 303-308 (2011). [DOI: [10.1007/s12613-011-0438-5](https://doi.org/10.1007/s12613-011-0438-5)]
- M.I. Aroyo, J.M. Perez-Mato, D. Orobengoa, E. Tasci, G. de la Flor, A. Kirov, "Crystallography online: Bilbao Crystallographic Server", *Bulg. Chem. Commun.* **43**(2) 183-197 (2011).
- E.S. Tasci, G. de la Flor, D. Orobengoa, C. Capillas, J.M. Perez-Mato, M.I. Aroyo,, "An introduction to the tools hosted in the Bilbao Crystallographic Server", *Contribution of Symmetries in Condensed Matter* **22** 000009 (2012).
[DOI: [10.1051/epiconf/20122200009](https://doi.org/10.1051/epiconf/20122200009)]
- S.V. Gallego, E.S. Tasci, G. de la Flor, J.M. Perez-Mato, M.I. Aroyo, "Magnetic symmetry in the Bilbao Crystallographic Server. Systematic absences of magnetic neutron diffraction.", *J. Appl. Cryst.* **45** 1236-1247(2012) .
[DOI: [10.1107/S0021889812042185](https://doi.org/10.1107/S0021889812042185)]
- M.I. Aroyo, D. Orobengoa, G. de la Flor, E.S. Tasci, J.M. Perez-Mato, H. Wondratschek, "Brillouin-zone database on the Bilbao Crystallographic Server", *Acta Cryst A* **70** (2014).
[DOI: [10.1107/S205327331303091X](https://doi.org/10.1107/S205327331303091X)]
- J.M. Perez-Mato, S.V. Gallego, E.S. Tasci, L. Elcoro, M.I. Aroyo, "Comment on 'Canonical magnetic insulators with isotropic magnetoelectric coupling'", *Phys. Rev. B* **90** 167101 (2014)
[DOI: [10.1103/PhysRevB.90.167101](https://doi.org/10.1103/PhysRevB.90.167101)]
- B. Kocsis, J.M. Perez-Mato, E.S. Tasci, G. de la Flor, M.I. Aroyo, "A survey of the structural models proposed for $\text{PbZr}_{1-x}\text{Ti}_x\text{O}_3$ using mode analysis", *J. Appl. Cryst.* **47** 1165-1179 (2014).
[DOI: [10.1107/S1600576714010693](https://doi.org/10.1107/S1600576714010693)]
- N. Nayir, E.S. Tasci, Ş. Erkoç, "Structural and Thermal Properties of Indium Phosphide Nanoparticles: Molecular Dynamics Simulations", *J. Comput. Theor. Nanos.* **12**(9) 2134-2139 (2015).
[DOI: [10.1166/jctn.2015.4000](https://doi.org/10.1166/jctn.2015.4000)]
- Y.E. Kitaev, A.G. Panfilov, E.S. Tasci, M.I. Aroyo, "High-symmetry phase prediction using trees of group–supergroup relations", *Phys. Solid State* **57**(11) 2297-2304 (2015).
[DOI: [10.1134/S1063783415110190](https://doi.org/10.1134/S1063783415110190)]
- E.S. Tasci, S. Erkoç, "Carbon Nanobuggy is Ready for a Test Drive!", *J. Comput. Theor. Nanos.* **12**(6) 1083-1085 (2015).
[DOI: [10.1166/jctn.2015.3854](https://doi.org/10.1166/jctn.2015.3854)]
- J.M. Perez-Mato, S.V. Gallego, E.S. Tasci, L. Elcoro, G. de la Flor, M.I. Aroyo, "Symmetry-Based Computational Tools for Magnetic Crystallography", *Annu. Rev. Mater. Res.* **45** 217-248 (2015).
[DOI: [10.1146/annurev-matsci-070214-021008](https://doi.org/10.1146/annurev-matsci-070214-021008)]

Reports & Proceedings

M.I. Aroyo, E.S. Tasci, G. de la Flor, D. Orobengoa, J.M. Perez-Mato, "Structure utilities hosted by the Bilbao Crystallographic Server", *Acta Cryst. A* **67** C209-C210 (2011).

G. de la Flor, D. Orobengoa, E.S. Tasci, M.I. Aroyo, J.M. Perez-Mato, "Further development of Brillouin zone database on the Bilbao Crystallographic Server", *Acta Cryst. A* **67** C403 (2011).

S.V. Gallego, E.S. Tasci, G. de la Flor, J.M. Perez-Mato, "Magnetic space groups: database and extinction rules for magnetic diffraction", *Acta Cryst. A* **67** C802 (2011).

S.V. Gallego, J.M. Perez-Mato, E. Tasci, L. Elcoro, M. Aroyo, K. Momma, G. Madariaga, "A collection of magnetic structures with cif-like files as a database seed", *Acta Cryst. A* **70** C1369 (2014).

J.M. Perez-Mato, B. Kocsis, E. Tasci, M. Aroyo, "Mode parameterization of structures with very low symmetry: PZT and magnetite", *Acta Cryst. A* **70** C501 (2014).

M. Aroyo, E. Tasci, J. M. Perez-Mato, G. de la Flor, S. Gallego, L. Elcoro, "Phase-transition studies at the Bilbao Crystallographic Server", *Acta Cryst. A* **70** C45 (2014).

PROCEEDINGS PRESENTED IN INTERNATIONAL MEETINGS

E. Tasci, O.B. Malcioglu, S. Erkoç, "Simulation of carbon nanotube junction formation", NATO-ASI: Nanoengineered Nanofibrous Materials, September 1-12, 2003 Antalya, Turkey. (Poster)

E. Yazgan, E. Tasci, O.B. Malcioglu, S. Erkoç, "Stability of carbon nanotube", NATO-ASI: Nanoengineered Nanofibrous Materials, September 1-12, 2003 Antalya, Turkey. (Poster)

E. Tasci, O.B. Malcioglu, S. Erkoç, "Encountering the same old solid mechanics in the realm of nano dimensions: an investigation of the interaction between two nanogears" NANOMAT 2006: International Workshop on Nanostructured Materials, June 21-23, 2006 Antalya, Turkey. (Poster)

E. Tasci, M.H.F. Sluiter, "Inference from Various Material Properties Using Mutual Information and Clustering Methods" MITS 2008: International Symposium on Materials Database, July 17-18, 2008 Tsukuba, Japan. (Invited speaker)

E. Tasci, M.H.F. Sluiter, "Proposal of the XML Specification as a Standard for Materials Database Query Submission and Result Retrieval" MITS 2008: International Symposium on Materials Database, July 17-18, 2008 Tsukuba, Japan. (Invited speaker)

M.H.F. Sluiter, E. Tasci, "Finding Materials for Transformation Toughening through Datamining" MITS 2008: International Symposium on Materials Database, July 17-18, 2008 Tsukuba, Japan.

M.H.F. Sluiter, E.S. Tasci, "Liquid Structure as A Guide for Phase Stability in the Solid State: Prediction of a Stable Compound in the Au-Si Alloys System" ACCMS-5: The 5th Conference of the Asian Consortium on Computational Materials Science, September 7-11, 2009 Hanoi, Vietnam.

M.H.F. Sluiter, D. Simonovic, E.S. Tasci, "Materials Database for the Computational Materials Scientist" AMDS 2010: The 2nd Asian Materials Database Symposium, March 10-14, 2010 Sanya, China.

E.S. Tasci, C. Capillas, G. de la Flor, D. Orobengoa, J.M. Perez-Mato, M.I. Aroyo, "Prediction of New Ferroelectric Materials by Structural Pseudosymmetry" EMF 12: European Meeting on Ferroelectricity, June 26 - July 2, 2011 Bordeaux, France.

S.V. Gallego, E.S. Tasci, G. de la Flor, J.M. Perez-Mato, M.I. Aroyo, "Computer determination of Systematic Extinction Rules for Magnetic Space Groups" ECNS 5: European Conference on Neutron Scattering, July 17-22, 2011 Prague, Czech Republic. (Poster)

E.S. Tasci, G. de la Flor, M.I. Aroyo, "Structure Relations: Obtaining the transformation matrix connecting two group-subgroup related structures" Mieres 2011: Crystallographic Computing School, August 16-22, 2011 Oviedo, Spain.

M.I. Aroyo, E.S. Tasci, G. de la Flor, D. la Flor, D. Orobengoa, J.M. Perez-Mato, "Structure utilities hosted by the Bilbao Crystallographic Server" IUCr2011: Congress and General Assembly of the International Union of Crystallography, August 22-30, 2011 Madrid, Spain.

M.I. Aroyo, J.M. Perez-Mato, D. Orobengoa, E.S. Tasci, "New developments on the Bilbao Crystallographic Server" Crystals, Minerals and Materials: Joint Meeting, September 20-24, 2011 Salzburg, Austria.

M.I. Aroyo, J.M. Perez-Mato, E.S. Tasci, G. de la Flor, S. Gallego, L. Elcoro, G. Madariaga, "Bilbao Crystallographic Server: New Tools and Improvements", ECM28: The 28th Meeting of the European Crystallographic Association, August 25-29, 2013, Warwick, UK.

J.M. Perez-Mato, S.V. Gallego, E.S. Tasci, L. Elcoro, M.I. Aroyo, "Maximal Magnetic groups for a given propagation vector in the Bilbao Crystallographic Server: Applications", ECM28: The 28th Meeting of the European Crystallographic Association, August 25-29, 2013, Warwick, UK. (Poster)

J.M. Perez-Mato, B. Kocsis, E. Tasci, M. Aroyo, "Single mode signature in distorted phases revealed by symmetry-mode analysis", NCS2014, September 25-27, 2014, Sofia, Bulgaria.

E.S. Tasci, S. Polad, T. Birol, "Hunting for multiferroics via DFT modelling", NCS2014, September 25-27, 2014, Sofia, Bulgaria. (Invited Speaker)

PROCEEDINGS PRESENTED IN NATIONAL MEETINGS

E. Tasci, S. Erkoç, “Calculation of the Casimir-Polder effect between various nanosystems”, European Union 6. Frame Program: Nanotechnology, Intelligent Devices and New Production Processes Workshop, Bilkent University, Ankara, July 12, 2002 (Poster).

E. Yazgan, E. Tasci, O.B. Malcioglu, S. Erkoç, “Theoretical Investigation of Carbon Nanotoroid Structures”, Turkish Physics Association 22. Physics Congress (TFD22), Bodrum, September 14-17, 2004 (Poster).

E. Tasci, O.B. Malcioglu, S. Erkoç, “Modelling and Simulation of Carbon Nano Gears”, Nano-TR-I, Nanoscience and Nanotechnology 2005, Bilkent University, Ankara 25-27 May 2005 (Poster).

E. Tasci, M.H.F. Sluiter, “Materials Informatics for Transformation Toughening”, Physics@FOM 2009, Veldhoven, January 20-21, 2009 (Poster).

S. Neelakantan, E. Tasci, P.E.J. Rivera Diaz del Castillo, S. van der Zwaag, “Martensite transformation prediction by combining electron theory with thermodynamics”, Physics@FOM 2009, Veldhoven, January 20-21, 2009 (Poster).

G. de la Flor, E. Tasci, D. Orobengoa, J.M. Perez-Mato, M.I. Aroyo, “Crystallography Online by the Bilbao Crystallographic Server”, II. Jornadas de Investigacion de la Facultad de Ciencias y Tecnologia, Leioa, March 15-17, 2010 (Poster).

E.S. Tasci, B. Kocsis, J.M. Perez-Mato, M.I. Aroyo, G. de la Flor, “Grup Teorisinin Yapısal Faz Geçişlerine Uygulanması: PZT örneği”, 19th Condensed Matter Physics Meeting, Bilkent University, Ankara, December 20, 2013. (Invited Speaker)

N. Nayır, E.S. Tasci, S. Yerci, S. Erkoç, “Moleküler Dinamik Benzetimi ile Yalıtkan Üzerine Germanyum Sisteminin İncelenmesi”, 20. Yoğun Madde Fiziği Toplantısı, Hacettepe University, Ankara, December 26, 2014.

N. Nayır, E.S. Taşcı, Z.İ. Özyurt, S. Yerci, Ş. Erkoç, “Sıvı Faz Epitaksi ile Tek Kristal Germanyumun Yalıtkan Üzerine Üretilmesinin Moleküler Dinamik Benzetimi ile İncelenmesi”, Başarım2015: 4. Ulusal Yüksek Başarımlı Hesaplama Konferansı, METU, Ankara, September 1-2, 2015.

THESES CO-SUPERVISED

Sara Hernandez, “Desarrollo de Herramientas Simples de Explotacion de una Base de Datos de Estructuras Moduladas” (*Development of tools for the exploitation of a Modulated Structures Database*), Graduation Thesis (*Trabajo fin de grado*), EHU/UPV, Bilbao, 2010.

Samuel Vidal Gallego, “Desarrollo para el Bilbao Crystallographic Server de programas relacionados con los Grupos Espaciales Magneticos y las Reglas de Extincion Magnetica” (*Development of relational programs for the Bilbao Crystallographic Server on Magnetic Space Groups and Magnetic Extinction Rules*), M.S. Thesis (*Trabajo fin de master*), EHU/UPV, Bilbao, 2011.

Nadire Nayır, “Investigation of Structural Properties of InP Nanostructures: Molecular Dynamics Simulations”, Ph.D. Thesis, METU, Ankara, 2014 (ongoing).

CONTRIBUTION TO BOOKS

S. Erkoç, O.B. Malcıođlu, E. Tascı, “Thermal Stability of Carbon Nanosystems: Molecular-Dynamics Simulations”, in “Nanomaterials: Design and Simulation”, Eds. P.B. Balbuena, J.M. Seminario, Elsevier, Amsterdam/the Netherlands, 2007. ISBN : 978-0-444-52826-1

[<http://books.google.com/books?id=2C2URGmaFkMC&printsec=frontcover>]

E.S. Tascı, A. Stroppa, J.M. Perez-Mato, D. Di Sante, S. Picozzi, M.-H. Whangbo, “The 'How-to' guide to computational crystallography study of organic ferroelectrics”, in “Research Horizons of Nanosystems: Structure, Properties and Interactions”, Ed. Mihai V. Putz, Apple Academic & CRC Press (Taylor & Francis), FL/USA, 2014.

ISBN: 978-1-9268-9590-1

[<http://www.crcpress.com/product/isbn/9781926895901>]

WORKSHOPS / SUMMER SCHOOLS ATTENDED

“Application Development for Grid and Clusters Lectures”, ULAKBİM/TUBİTAK, 15,19,22,26 September, 2007, METU, Ankara, Turkey.

“Crystallography Online: International School on the Use and Applications of the Bilbao Crystallographic Server”, Bilbao Crystallographic Server, June 21-27, 2009, Lekeitio, Spain.

“Summer Schools on Mathematical Crystallography: Topological Crystal Chemistry”, IUCr, June 22-25, 2010, Nancy, France.

“Algorithms Development and Implementations”, Mieres 2011: Crystallographic Computing School, IUCr & University of Oviedo, August 16-22, 2011, Oviedo, Spain.

“ITOn! 2011 – Satellite Workshop: Online Edition of International Tables for Crystallography”, IUCr & UPV, August 31-September 3, 2011, Bilbao, Spain (Local Organizer).

“Atoms, Molecules and Life: a workshop held in honor of Prof. Sakir Erkoç”, METU, September 7, 2013, Ankara, Turkey (Organizer).

“International School on Fundamental Crystallography”, BGCryst & IUCr, September 30 – October 5, 2013, Sofia-Gyulechitza, Bulgaria (Lecturer).

“CRYSTR2015: Second Balkan School on Fundamental Crystallography and Workshop on Magnetic Symmetry”, Hacettepe University, IUCr & ECA, 13-19 Temmuz 2015, İstanbul, Turkey (Organizer)

COMPUTER APPLICATIONS

Worked on the parallelization of molecular mechanics and optimization software using MPICH for Beowulf Clusters as well as Windows & Linux mixed clusters.

Since 2008, completely switched to Linux OS. Adept at Bash scripting. Now using Octave as the default mathematics software and if need arises, integrating GNU Scientific Library in C++ code. Also experienced in DFT calculations using VASP and Quantum Espresso software packages. Recently I'm also using the LAMMPS molecular dynamics simulation package.

For the Bilbao Crystallographic Server, developing applications mostly coding with Perl, PHP and Octave, storing referential data via XML and MySQL.

HOBBIES

Literature

(for a more detailed list check <http://www.emresururi.com/page.php?page=about&lang=en>)

Jean-Paul Sartre, Oguz Atay, Haruki Murakami, Michel Butor, Roland Barthes, Honoré de Balzac, Michel Tournier, Matsuo Basho, Ahmet Hasim, Edip Cansever, T.S. Eliot, J.D. Salinger,...

Being an amateur writer myself, I've yet managed to publish my stories in some magazines and also have achieved 1st prize in a local story-writing contest with my story about a Kafkaesk physics professor failing to realize he has died already... Some of my stories can be found at [my personal webpage's related section](#).

Movies

(for a more detailed list check <http://www.emresururi.com/page.php?page=about&lang=en>)

Kar Wai Wong, Aki Kaurismäki, Jim Jarmusch, *It's a Wonderful Life*, *High Fidelity*, *Un Coeur en Hiver*, *La Cité des Enfants Perdus*, *À Bout de Souffle*,...

Web page design & coding

Designer, coder and editor of "Epigraf: Literature Site"

(<http://epigraf.fisek.com.tr>) (In Turkish)

Coder of the "Guben Blogger" which I also use for my blog entries that can be accessed via <http://www.emresururi.com/blogs/sururi/> (In Turkish)