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METU TECHNOPOLIS
Ikizler Binasi Zemin Kat Ara-2
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06531 Ankara, Turkey

EDUCATION:

1. BSCE, Robert College, Istanbul, Turkey, 1967.
2. MSCE, Clemson University, SC, USA, 1968.
3. PhD, Eng Mech, Clemson University, SC, USA, 1970.

GRANTS AND AWARDS:

1. FULBRIGHT Grant, University of California, Berkeley, USA, 1978-1979.
3. Japanese International Cooperation Agency (JICA) Grant, International Institute of Seismology & Earthquake Engineering, Tsukuba, Japan, 1982.
4. The Scientific and Technical Research Council of Turkey (TUBITAK), Promotional Award, 1984.
5. Middle East Technical University Prof. T. Somer Achievement Award, 1999.

ACADEMIC:

1. Member of the University Senate, Baskent University, Ankara, 2001-2003.
2. Professor, Dept of Biomedical Engng, Baskent University, Ankara, 2001-2003.
3. Member of the Faculty Academic Council, School of Engineering, Middle East Technical University, Ankara, 2000-2001.
4. Professor, Eng Sciences, Middle East Technical Univ, Ankara, 1989-2001.
5. Chairman, Department of Engineering Sciences, Middle East Technical University, Ankara, 1989-98.
6. Visiting Professor, Mechanical Eng, Saginaw Valley State University, MI, USA, 1996 Summer.
7. Member of the Faculty Academic Council, School of Engineering, Middle East Technical University, Ankara, 1989-1998.
8. Member of the Faculty Board, School of Science, Ankara University, Ankara, 1986-1989.
9. Member of the Faculty Academic Council, School of Science, Ankara Univ, Ankara, 1986-1989.
10. Member of the University Senate, Ankara University, Ankara, 1985-1987.
11. Professor, Engineering Physics, Ankara University, Ankara, 1985-1989.
12. Dean, Graduate School of Natural & Applied Sciences, Ankara University, Ankara, 1985-1987.

13. Associate Professor, Civil Eng, Middle East Technical University, Ankara, 1978-1985.
14. Director, Structural Mechanics Laboratory, Civil Eng, Middle East Technical University, Ankara, 1981-1982.
15. Visiting Associate Professor, Mechanical Eng, Clemson Univ, SC, USA, 1980-1981.
16. Visiting Associate Professor, Mechanical Eng and Applied Mechanics, Univ of Michigan, Ann Arbor, Michigan, USA, 1979-1980.
17. Fulbright Scholar, Mechanical Eng, Univ of California, Berkeley, CA, USA, 1978-1979.
18. Coordinator, Bioengineering Research Group, Middle East Technical Univ, Ankara, 1974-1978.
19. Assistant Professor, Civil Eng, Middle East Technical University, Ankara, 1972-1978.
20. Assistant Professor, Civil Eng, Clemson University, SC, USA, 1971-1972.

PROFESSIONAL:

1. Executive Director, TROYKA Ltd, METU Technopolis, 2005 –
2. Consultant, TUMAS, Turkish Engineering Consulting and Contracting Co, 2005-2008.
3. Advisor, TUBITAK, The Scientific and Technological Research Council of Turkey, 2002-2005.
4. Structural Engineer, J.E.Sirrine Co, Greenville, SC, USA, 1971.

ACTIVITIES WITHIN THE EUROPEAN UNION PROGRAMS:

1. Core SME Member, PLA4FOOD, EU-FP7-SME-2010-1, 2010-2012.
2. Core SME Member, PIEZOSELEX, EU-FP7-SME-2010-1, 2010-2012.
3. Core SME Member, SKINTREAT, EU-FP7-NMP Large Collaborative Project, 2008-2012.
4. Core SME Member, GMSAFOOD, EU-FP7-KBBE Small Collaborative Project, 2008-2011.
5. Core SME Member, LOWJUICE, EU-FP6-SME-COLL Project, 2006-2009.
6. Core SME Member, BARLEYBREAD, EU-FP6-SME-COLL Project, 2006-2009.
7. National Contact Point (NCP), EU FP6-TP5: Food Quality and Safety. 2002-2005.
8. Program Committee Member, EU FP6-TP5: Food Quality and Safety. 2002-2005.
9. National Contact Point (NCP), EU FP6-TP1: Health. 2002-2003.
10. Program Committee Member, EU FP6-TP1: Health. 2002-2003.
11. Workpackage Leader, EU-FP6-TP5 Project: TRAINNETFUTURE, 2004-2005.
12. Partner, EU-FP6-TP5 Project: CEC-ANIMALSCIENCE, 2004-2005.
13. Partner, EU-FP6-TP5 Project: RURAL-ETINET, 2004-2005.
14. Partner, EU-FP6-TP5 Project: SMESFORFOOD, 2004-2005.
15. Delegate, EU-BIOMED 1-Medical and Health Research Program: Assessment of Bone Quality in Osteoporosis, 1994-1996.
16. Delegate, EU-CONCERTED ACTION-Medical and Health Research Program: Skeletal Implants, 1990-1996.

17. Delegate, EU-CONCERTED ACTION-Medical and Health Research Program: Quantitative Assessment of Osteoporosis, 1990-1994.

ACTIVITIES WITHIN THE UNITED NATIONS PROGRAMS:

1. Member of the General Assembly, UNESCO National Commission of Turkey, 1993-1997.
2. Member of the Administrative Board, UNESCO National Commission of Turkey, 1994-1996.
3. Member of the Turkish Delegation, UNESCO General Conference 28th Session, Paris, November 4-11, 1995.
4. Sub-project Coordinator, UNDP Project of the Government of Turkey. State Planning Organization. No. TUR/92/004/A/01/99, "Assistance to strengthen the infrastructure for high level science and technology activities. Sub-project: Manufacturing of fiber reinforced composites". 1994-1996.
5. Turkish Representative for Working Group B, United Nations Project UNDP/UNESCO RER/79/014 "Earthquake Risk Reduction in the Balkan Region".
6. Turkish Representative for Working Group D, United Nations Project UNDP/UNESCO RER/79/015 "Building Construction under Seismic Conditions in the Balkan Region".

ACTIVITIES WITHIN THE NATO PROGRAMS:

1. Director of the Conference, NATO Advanced Study Institute on Progress in Biomechanics, Ankara, July 10-21, 1978.
2. Director of the Conference, NATO Advanced Research Workshop on Biomechanics of Cell Division, Istanbul, October 12-17, 1986.
3. Director of the Conference, NATO Advanced Study Institute on Biomechanics of Active Movement and Deformation of Cells, Istanbul, September 3-13, 1989.
4. Director of the Conference, NATO Advanced Study Institute on Biomechanics of Active Movement and Division of Cells, Istanbul, September 19-29, 1993.
5. Principal investigator, "Dynamic modelling of human articulating joints". NATO Scientific Affairs Division, Project No. 308/84, 1984.
6. Principal investigator, "Biomechanics of the division of animal cells". NATO Scientific Affairs Division, Project No. 342/87, 1987 (extended in 1990).
7. Senior Researcher and Group Leader for Characterization Tests, "The production and application of microbial polyesters in the construction of biodegradable controlled antibiotic release systems and bone fracture repair rods". NATO Science for Stability Project, No. SA.SfS/TU-POLYESTERS. Project Director: Prof. V.Hasirci. 1996-1998.

ACTIVITIES WITHIN THE WORLD BANK PROGRAMS:

1. Principal Structural Engineer, Consultancy Services for Retrofitting Design of Selected Public Buildings in Istanbul (CB 1.3/E). World Bank Loan No:4784-TU, 2008.
2. Structural Engineer – Construction Supervision Group, Consultancy Services for the Retrofitting of Selected High Priority Public in Istanbul (CB1.2/B). World Bank Loan No:4784-TU, 2007-2008.

3. Deputy Project Manager, Consultancy Services for the Retrofitting of Public Buildings Including Hospitals, Schools and Administrative Buildings in Istanbul (CB1.1). World Bank Loan No:4784-TU, 2006-2007.
4. Advisor on Earthquake Engineering, Second Basic Education Project (BEP-2)-Consultancy Services for the Retrofitting Design and Construction Supervision of School Buildings in Region D. Ministry of National Education of Turkey, World Bank Second Basic Education Project, No. 4671-TU-BEP2-CS/01-QCBS, 2005-2007.

RESEARCH SUPPORTED BY OTHER INTERNATIONAL FUNDS:

1. Investigator, "Fetal skull modelling". National Institute of Health, Grant No. HD11202. University of Michigan, Ann Arbor, MI, USA.
Principal Investigator: Dr. T.Kriewall. 1980.
2. Subcontractor, "Human joint modelling". Aerospace Medical Research Lab. Grant. The Ohio State University Research Foundation Project No. 710961-SC1, Columbus, OH, USA. Principal Investigator: Prof. A.Engin. 1980.
3. Investigator, "Testing and investigation of the TV antennas with special emphasis on Kars TV tower". Sumitomo Corporation, Tokyo, Japan, Project No. METU 90-03-03-01-04. Principal Investigator: Prof. C.Yilmaz. 1990.
4. Coordinator, "Collaboration in biomedical materials and biomechanics research, medical device development and education". British Council Academic Link Scheme for Turkey. Collaboration with the Interdisciplinary Research Centre in Biomedical Materials, Queen Mary and Westfield College, London, 1993-1996.
5. Consultant, "The membrane spectrin heat paradox: A biophysical study". USA Office of Naval Research Grant No. N00014-92-J-1053. Principal Investigator: A.E.Sowers. September 1994.

RESEARCH SUPPORTED BY NATIONAL FUNDS:

1. Principal investigator, "Dynamic analysis of a fluid-filled spherical sandwich shell: A model of the human head". The Scientific and Technical Research Council of Turkey (TUBITAK), Grant No. TAG-282, 1974.
2. Investigator, "Development of a general purpose computer program for solid mechanics". The Scientific and Technical Research Council of Turkey (TUBITAK), Grant No. MAG-450.
Principal Investigator: Prof. C.Yilmaz. 1980.
3. Investigator, "Probabilistic assessment of the seismic hazard in Turkey". Turkish Electricity Authority, METU 80-04-09-00-02. Principal Investigator: Prof. M.Erdik. 1981.
4. Investigator, "Second Turkish nuclear power plant site selection, evaluation and consultation". Turkish Electricity Authority, METU 81-04-09-00-01. Principal Investigator: Prof. M.Erdik. 1981.
5. Investigator, "Karakaya railway bridge: Analysis and consultation". Yuksel Proje Design Firm, Project No. METU 81-04-09-00-02. Principal Investigator: Prof. C.Yilmaz. 1981.
6. Investigator, "Seismic risk assessment of the CNAM-2 reactor building". Turkish Atomic Energy Agency, Project No. METU 83-04-09-00-07. Principal Investigator: Prof. M.Erdik. 1984.

7. Investigator, "Nuclear power plant site selection and evaluation at Akkuyu and Camalani bays". Turkish Electricity Authority, METU 84-04-09-00-01. Principal Investigator: Prof. M.Erdik. 1984.
8. Principal investigator, "Seismic risk assessment of electrical power plant facilities". Turkish Electricity Authority, METU 84-04-09-00-06, 1984.
9. Principal investigator, "Investigation of the material properties of osteoporotic bones in man and rabbit through mechanical and ultrasonic techniques". The Scientific and Technical Research Council of Turkey (TUBITAK), Grant No. MISAG-27, 1992.
10. Investigator, "Damage to the public buildings and investigation of the causes in Erzincan earthquake". Ministry of Construction and Settlement, Project No. METU 92-03-03-01-01. Principal Investigator: Prof. E.Citipitioglu. 1992.
11. Investigator, "Development of analysis and design methods for static and earthquake analysis of structures built with tunnel form construction technique". The Scientific and Technical Research Council of Turkey, (TUBITAK) Grant No. INTAG-515. Principal Investigator: Prof. E.Citipitioglu. 1992.
12. Investigator, "Contribution of non-structural partition walls in earthquake response and incorporation of the conclusions in design codes". The Scientific and Technical Research Council of Turkey (TUBITAK), Grant No. INTAG/TOKI-531. Principal Investigator: Prof. E.Citipitioglu. 1994.
13. Investigator, "Production of polyester biopolymers of microbial origin and investigation of their suitability in industrial and biomedical applications". State Planning Organization of Turkey, Project No. AFP-01-08-DPT.95K120492. Principal Investigator: Prof. G.Alaaddinoglu. 1995.
14. Investigator, "Production of calcium phosphate bioceramics". State Planning Organization of Turkey, Project No. AFP-03-08-DPT.95K120491. Principal Investigator: Dr. C.Tas. 1995.
15. Investigator, "Synthesis of porous calcium phosphate bioceramics". The Scientific and Technical Research Council of Turkey (TUBITAK), Project No. MISAG-58. Principal Investigator: Dr. C.Tas. 1995.
16. Coordinator, "An experimental and theoretical investigation and construction of a smart device". The Scientific and Technical Research Council of Turkey (TUBITAK), DOPROG Program. Collaboration with the Institute of Physics of Rostov University (Prof. VP Sakhnenko), Russia, 1995-1998.
17. Principal Investigator, "Improvement of the mechanical properties of unsaturated polyester and epoxy resin and production of composite materials". State Planning Organization, Turkey, AFP-03-10-DPT96K121510. 1996-1998.
18. Principal Investigator, "Production and characterization of polymer based electromagnetic shielding materials for defense and industrial applications". State Planning Organization, Turkey, AFP-03-10-DPT98K122720. 1998-2000.
19. Investigator, "Investigation of the response of human body under various dynamic loads using biomechanical methods". State Planning Organization, Turkey, AFP-03-10-DPT98K122790. Principal Investigator: Prof. G.Birlik. 1998-2001.
20. Investigator, "Investigation of functional defects in various organs of diabetic rats by biophysical, biomechanical and molecular biological methods". The Scientific and Technical Research Council of Turkey (TUBITAK), Project No. SBAG-1732. Principal Investigator: Prof. B.Turan. 1998-1999.

21. Investigator, "Mechanical assessment of mini- and microplate applications in zygoma fractures". The Scientific and Technical Research Council of Turkey (TUBITAK), Project No. SBAG-1865.
Principal Investigator: Prof. N.Selmanpakoglu. 1998.

BOOKS EDITED (INTERNATIONAL):

- B1. *Progress in Biomechanics*
Sijthoff and Noordhoff International Publishers, NATO Advanced Study Institute Series E: Applied Science, No. 32, The Netherlands, 1979.
Ed: N. Akkas. 388 pages.
- B2. *Post-Earthquake Damage Evaluation and Strength Assessment of Buildings under Seismic Conditions*
Vol.4, Building Construction under Seismic Conditions in the Balkan Region, UNDP/UNIDO Project RER/79/015. UNIDO Publ., Vienna 1985.
Eds: G.Serbanescu, N.Akkas, S.Anagnostopoulos, T.Karman, B.Tozija, L.Tzenov. 260p
- B3. *Biomechanics of Cell Division*
Plenum Press, NATO Advanced Study Institute Series A: Life Sciences, Vol. 132, New York, 1987. Ed: N.Akkas. 374 pages.
- B4. *Biomechanics of Active Movement and Deformation of Cells*
Springer-Verlag, NATO Advanced Study Institute Series H:Cell Biology, Vol.42, Berlin, 1990. Ed: N.Akkas. 524 pages.
- B5. *Biomechanics of Active Movement and Division of Cells*
Springer-Verlag, NATO Advanced Study Institute Series H:Cell Biology, Vol.84, Berlin, 1994. Ed: N.Akkas. 578 pages.

CONFERENCE PROCEEDINGS PAPERS (NATIONAL): >10

CONFERENCE PROCEEDINGS PAPERS (INTERNATIONAL): >80

JOURNAL PAPERS (NATIONAL): >20

JOURNAL PAPERS (INTERNATIONAL): >90

CITATIONS AS FOUND IN CITATION INDEX: >500