

CURRICULUM VITAE
PROF. DR. ISKENDER YILGOR
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I. ADDRESS

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II PERSONAL DATA

Born: November 15, 1951, Mersin, TURKEY

Married: Emel Yilgör

III. EDUCATION AND DEGREES

Middle East Technical University (METU)
Chemistry Department, Ankara, TURKEY

B. S. 1972

M. S. 1974

M. S. Thesis "Synthesis and Characterization of Block Copolymers of Propylene Glycol and Methyl Methacrylate"

Ph. D. 1978

Ph. D. Thesis "Kinetic Studies on Polymeric Peroxycarbamates, Their Use in the Synthesis of Block Copolymers of Styrene and Characterization of Products"

IV. AWARDS

1987 Best paper award, INDA Tech Meeting, Atlanta, GA

1999 Koç University Werner von Siemens Award in Excellence in Science and Innovation

2003 Tubitak Science Award in Chemistry
(For lifetime contributions to Polymer Science)

2004 Mersin Toros Rotary Club Science Award
(For contributions to science education in Turkey)

2005 Best paper award, 167th Rubber Division Meeting, ACS, San Antonio, TX

2014 Koç University Outstanding Faculty Award

V. HONORARY APPOINTMENTS/POSITIONS

Tubitak	Member of the Awards Committee	2008 – Present
Toros University	Member of the Board of Trustees	2008 – 2015
Tubitak	Member of the Science Board	2009 – 2013
Eur. Sci. Foundation	PESC Standing Committee Member	2010 – 2012

Turkish J. Chemistry	Member of the Editorial Advisory Board	2007 – 2013
Silicon	Member of the Editorial Advisory Board	2009 – Present
Eur. J. Chemistry	Associate Editor	2009 – Present

VI. APPOINTMENTS

1. Professor of Chemistry
Koç University, Istanbul, Turkey (October, 1996 - Present)
2. Director
Health Sciences Institute
Koç University, Istanbul, Turkey (May, 2011 – May 2014)
3. Director
KUYTAM - Surface Science and Technology Center
Koç University, Istanbul, Turkey (June 2010 – June 2012)
4. Associate Professor of Chemistry
Koç University, Istanbul, Turkey (October, 1994 - October 1996)
5. Vice President R&D
Goldschmidt Chemical Corp.
Hopewell, VA, USA (January 1989 - October 1994)
6. Vice President of R&D
Polymer Division, Thoratec Labs. Corp.
Berkeley, CA, USA (July 1986 - January 1989)
7. Director of R&D
MERCOR Inc., (a Thoratec Company)
Berkeley, CA, USA (August 1985 – July 1986)
8. Director of Polymer Laboratories
Virginia Tech
Blacksburg, VA, USA (January 1983 - August 1985)
9. Research Associate
Chemistry Department, Virginia Tech
Blacksburg, VA, USA (April 1980 - January 1983)
10. Assistant Professor
Chemistry Department, METU
Ankara, Turkey (March 1979 - September 1982)
11. Instructor
Chemistry Department, METU
Ankara, Turkey (March 1978 - March 1979)
12. Teaching Assistant
Chemistry Department
Middle East Technical University (METU)
Ankara, Turkey (November 1972 - March 1978)

VII. INDUSTRIAL EXPERIENCE

Establishment and management of small (10-15 membered) research teams for specialty industrial polymer research, product development and/or applications development.

Extensive experience on the synthesis, characterization and modification of reactive silicone oligomers and their use in the preparation of thermoplastic silicone containing copolymers. Applications development for industrial use of specialty siloxane copolymers.

Extensive experience on the structural design, synthesis, modification, characterization and structure-property behaviors of segmented thermoplastic polyurethaneurea (TPU) copolymers. Process development and optimization from lab scale to commercial production for the production of TPUs. Applications development for TPUs as breathable textile coatings, biomaterials, fibers, adhesives and elastomers.

Experience in melt processing, compounding and modification of thermoplastic polymers such as polyolefins, polyurethanes, polyesters, polyamides and polycarbonates using a twin-screw extruder. Process and formulation development for direct polymerization of polyurethanes in a twin-screw extruder.

Technical consulting to major international companies including; Procter and Gamble, Wacker Chemie, Goldschmidt AG, IBM and DSM. Technical consultant to a large number of Turkish Companies including Flokser and AksaCA.

OTHER EXPERIENCE

In addition to my academic and industrial experience outlined above, I am a referee for a large number of scientific journals and also for research proposals submitted to Tubitak, DPT and various European Research Agencies. I also acted as an expert witness for various court cases for international companies.

VIII. RESEARCH INTERESTS

1. Utilization of reactive oligomers for the preparation of well-defined multiphase copolymers, especially segmented thermoplastic polyurethanes and polyureas. Investigation of the influence of chain symmetry, chemical composition and hydrogen bonding on the structure-morphology-property relations in TPUs.
2. Controlled surface modification of commercially available thermoplastic or thermosetting polymers, ranging from superhydrophilic to superhydrophobic. Surface characterization of polymeric materials and optimization of surface properties for specific end-use applications.
3. Preparation and characterization of silica filled TPU nanocomposites and investigation of their structure-morphology-property behavior.
4. Preparation of polymeric micro- and nano-fibers by electrospinning and 3D printing. Preparation and utilization of biocompatible and biodegradable 3D scaffolds for tissue engineering applications.
5. Design, synthesis and characterization of segmented and hyperbranched thermoplastic polyurethaneurea elastomers with controlled properties.
6. Preparation and characterization of polymeric materials with controlled functionalities, such as; antimicrobial properties, biocompatibility, photoluminescence, shape-memory and self-healing properties.

IX. PUBLICATIONS

A. BOOKS

1. "New Elastomer Synthesis for High Performance Applications",
J. E. McGrath, G. L. Wilkes, T. C. Ward, A. D. Broske, B. Lee, I. Yilgor,
D. J. Bradley, J. M. Hoover and T. E. Long,
Noyes Data Corporation, Park Ridge N. J. 1988.

B. BOOK CHAPTERS (PEER REVIEWED)

1. "An Overview of the Polymerization of Cyclosiloxanes",
J. E. McGrath, J. S. Riffle, A. K. Banthia, I. Yilgor and G. L. Wilkes,
in "Initiation of Polymerization", Ed. F. E. Bailey, Jr., ACS Symposium Series,
No 212, Washington, D. C., 1983 Chapter 13
2. "Elastomeric Polysiloxane Modifiers for Epoxy Networks. II.
Synthesis of Functional Oligomers and Network Formation Studies",
J. S. Riffle, I. Yilgor, A. K. Banthia, C. Tran, G. L. Wilkes and J. E. McGrath,
"Epoxy Resin Chemistry II", Ed. R. S. Bauer, ACS Symposium Series, No 221,
Washington, D. C., 1983, Chapter 2
3. "Siloxane Modifiers for Epoxy Resins",
E. M. Yorkgitis, C. Tran, N. S. Eiss, Jr., T. Y. Hu, I. Yilgor, G. L. Wilkes and J. E. McGrath, in
"Rubber Modified Thermoset Resins", Eds. C. K. Riew and J. K. Gillham, Adv. in Chem. Series,
No. 208, ACS, Washington, D. C., 1984, Ch. 9
4. "Chemical Modification of Matrix Resin Networks with Engineering Thermoplastics. II.
Morphology and Properties of Poly(Aryl Ether Sulfone) Modified Epoxy Networks",
J. L. Hedrick, I. Yilgor, J. C. Hedrick, G. L. Wilkes and J. E. McGrath,
30th Natl. SAMPE Symp., Proc., Vol. 30, 947-958 (1985)
5. "Reactive Difunctional Siloxane Oligomers: Synthesis and Characterization",
I. Yilgor, J. S. Riffle and J. E. McGrath,
in "Reactive Oligomers", Eds. F. W. Harris and H. J. Spinelli, ACS Symposium Series, No. 282,
Washington, D. C., 1985, Chapter 14.
6. "Studies on the Synthesis of Novel Block Ionomers",
R. D. Allen, I. Yilgor and J. E. McGrath,
in "Coulombic Interactions in Macromolecular Systems", Eds. A. Eisenberg and F. E. Bailey,
ACS Symp. Series, No. 302, Washington, D. C., 1986, Chapter 6
7. "Recent Advances in Organosiloxane Copolymers",
J. D. Summers, C. S. Elsbernd, P. M. Sormani, P. J. A. Brandt, C. A. Arnold,
I. Yilgor, J. S. Riffle, S. Kilic and J. E. McGrath,
in "Inorganic and Organometallic Polymers", Eds. M. Zeldin, K. J. Wynne and H. R. Allcock,
ACS Symp. Series, No. 360, Washington, D. C. 1988, Chapter 14
8. "Synthesis and Characterization of Atomic Oxygen Resistant Poly(Siloxane-Imide) Coatings",
I. Yilgor,
in "Adhesives, Sealants and Coatings for Space and Harsh Environments", Ed. L. -H. Lee,
Plenum Press, NY 1988, pp. 249-264
9. "Tri-block Polyestersiloxane Copolymers - Synthesis, Characterization and Use as Surface
Modifying Additives",
G. E. Hahn, K. -D. Klein, I. Yilgor and C. Gould,
in "Silicon-Containing Polymers", Ed. R. G. Jones, Publ. No. 166,
The Royal Soc. Chem., UK, 1995, pp. 81-88.

10. "Siloxane Copolymers as Compatibilizers for Polymer Blends",
I. Yilgor, E. Yilgor, J. Venzmer and R. Spiegler,
in "Interfacial Aspects of Multicomponent Polymer Materials",
Eds. L. H. Sperling, D. J. Lohse and T. P. Russel, Plenum, New York, 1997,
pp.195-209

11. "Polymer Surface Modifiers",
I. Yilgor,
in "Silicone Surfactants", ed. R. M. Hill, Surfactant Science, Vol. 86, Ch. 10,
pp. 259-273, Marcel Dekker, New York, 1999 ISBN 0-8247-0010-4

12. "High Strength Silicone-Urethane Copolymers. Synthesis and Properties",
E. Yilgor, A. Tulpar, S. Kara and I. Yilgor, In "Silicones and Silicone-Modified Polymers", Eds.,
S. J. Clarson, J. J. Fitzgerald, M. J. Owen and S. D. Smith, ACS Symp. Ser., No 729, ACS,
Washington, DC, 2000, Ch. 26, pp. 395-407.

13. "Preparation and properties of silicone-urea copolymers doped with Co(II) chloride",
E. Yilgor, M. Gordeslioglu, B. Dizman and I. Yilgor,
in "Synthesis and properties of silicones and silicone modified materials", Eds., J. S. Clarson, J.
J. Fitzgerald, M. J. Owen, S. D. Smith ve J. Van Dyke, ACS Symp. Series, No. 838, ACS
Washington D. C., 2003, Chapter 24

14. "Silicone-Urea Copolymers Modified with Polyethers"
I. Yilgor and E. Yilgor
In "Science and Technology of Silicones and Silicone-Modified Materials", Eds. S. J. Clarson, J.
J. Fitzgerald, M. J. Owen, S. D. Smith, M. E. Van Dyke, ACS Symposium Series Vol. 964, ACS,
Washington, D. C., 2007, Ch. 8, pp. 100-115.

C. PEER-REVIEWED ARTICLES IN SCIENTIFIC JOURNALS

1. "Preparation of Block Copolymers by Use of Some New Polymeric Peroxides and Characterization of the Products",
B. M. Baysal, E. H. Orhan and I. Yilgor,
J. Polym. Sci., Symp. No. 46, 237-249 (1974)
2. "Block Copolymers from Poly(ethylene oxide) and Styrene",
E. H. Orhan, I. Yilgor and B. M. Baysal,
Polymer, 18, 286-290 (1977)
3. "Kinetics of the Reaction of a Glycol with a Diisocyanate",
I. Yilgor, E. H. Orhan and B. M. Baysal,
Makromol. Chem., 179, 109-112 (1978)
4. "A DSC Kinetic Study of Epoxy Network System Bisphenol A Diglycidylether-Bis(4-aminocyclohexyl)methane",
I. Yilgor, E. Yilgor, A. K. Banthia, G. L. Wilkes and J. E. McGrath,
Polym. Bull., 4(6), 323-327 (1981)
5. "Siloxane-Urea Segmented Copolymers: I. Synthesis and Characterization of Model Polymers from MDI and α,ω -Bis(Aminopropyl)Polydimethylsiloxane",
I. Yilgor, J. S. Riffle, G. L. Wilkes and J. E. McGrath,
Polym. Bull., 8, 535-542 (1982)
6. "Siloxane-Urea Segmented Copolymers: II. Investigation of Mechanical Behavior",
D. Tyagi, G. L. Wilkes, I. Yilgor and J. E. McGrath,
Polym. Bull., 8, 543-550 (1982)
7. "Synthesis and Characterization of Free-Radical Cured Bismethacryloxy Bisphenol-A Epoxy Networks",
I. Yilgor, E. Yilgor, A. K. Banthia, G. L. Wilkes and J. E. McGrath,
Polym. Composites, 4(2), 120-125 (1983)
8. "Synthesis of High Molecular Weight Polyester-Carbonates via Interfacial Phosgenation of Aromatic Dicarboxylic Acids and Biphenols",
F. L. Keohan, R. G. Freelin, J. S. Riffle, I. Yilgor and J. E. McGrath,
J. Polym. Sci., Polym. Chem., 22(3), 679-704 (1984)
9. "Synthesis and Characterization of Sulfonated Poly(Arylene Ether Sulfones)",
B. C. Johnson, I. Yilgor, C. Tran, M. Iqbal, J. P. Wightman, D. R. Lloyd and J. E. McGrath, J. Polym. Sci., Polym. Chem., 22(3), 721-737 (1984)
10. "Segmented Organosiloxane Copolymers. I. Synthesis of Siloxane-Urea Copolymers",
I. Yilgor, A. K. Sha'aban, W. P. Steckle, Jr., D. Tyagi, G. L. Wilkes and J. E. McGrath,
Polymer, 25(12), 1800-1806 (1984)
11. "Segmented Organosiloxane Copolymers. 2. Thermal and Mechanical Properties of Siloxane-Urea Copolymers",
D. Tyagi, I. Yilgor, J. E. McGrath and G. L. Wilkes,
Polymer, 25(12), 1807-1816 (1984)
12. "Novel Supercritical Fluid Techniques for Polymer Fractionation and Purification. I. Background",
I. Yilgor, J. E. McGrath and V. Krukonis,
Polym. Bull., 12, 491-497 (1984)

13. "Novel Supercritical Fluid Techniques for Polymer Fractionation and Purification. II. Fractionation and Characterization of Functional Siloxane Oligomers",
I. Yilgor, J. E. McGrath and V. J. Krukonis,
Polym. Bull., 12, 499-506 (1984)
14. "Chemical Modification of Matrix Resin Networks with Engineering Thermoplastics. I. Phenolic Hydroxyl Terminated Poly(Aryl Ether Sulfone)-Epoxy Systems",
J. L. Hedrick, I. Yilgor, G. L. Wilkes and J. E. McGrath,
Polym. Bull., 13(3), 201-208 (1985)
15. "Polymeric Peroxycarbamates: Synthesis, Characterization and Their Initiation of Styrene Polymerization",
I. Yilgor and B. M. Baysal,
Makromol. Chem., 186, 463-472 (1985)
16. "Effect of Catalysts on the Reaction Between a Cycloaliphatic Diisocyanate (H-MDI) and n-Butanol",
I. Yilgor and J. E. McGrath,
J. Appl. Polym. Sci., 30, 1733-1739 (1985)
17. "The Synthesis and Characterization of Poly(Dimethylsiloxane) Based Liquid Crystals",
R. C. Allen, G. L. Wilkes, I. Yilgor, D. Wu and J. E. McGrath,
Makromol. Chem., 187, 2909-2931 (1986)
18. "Polysiloxane Containing Copolymers: A Survey of Recent Developments",
I. Yilgor and J. E. McGrath,
Advances in Polymer Science, Vol. 86, 1-87 (1988)
19. "Novel Triblock Siloxane Copolymers: Synthesis, Characterization and Their Use as Surface Modifying Additives",
I. Yilgor, W. P. Steckle, Jr., E. Yilgor, R. G. Freelin and J. S. Riffle,
J. Polym. Sci., Part-A: Polym. Chem., 27, 3673-3690 (1989)
20. "Isocyanate-Epoxy Reactions in Bulk and Solution",
J. S. Senger, I. Yilgor, J. E. McGrath and R. A. Patsiga,
J. Appl. Polym. Sci., 38, 373-382 (1989)
21. "Chemical Modification of Matrix Resin Networks with Engineering Thermoplastics: I. Synthesis, Morphology, Physical Behavior and Toughening Mechanisms of Poly(arylene ether sulphone) modified Epoxy Networks",
J. L. Hedrick, I. Yilgor, M. Jurek, J. C. Hedrick, G. L. Wilkes and J. E. McGrath,
Polymer, 32, 2020-2032 (1991)
22. "Molecular Weight Dependence and End-Group Effects on the Surface Tension of Poly(dimethylsiloxane)",
C. Jalbert, J. T. Koberstein, I. Yilgor, P. Gallager and V. Krukonis,
Macromolecules, 26(12), 3069-3074 (1993)
23. "Silicone Surfactants. Part V: Siloxane Copolymers as Surface Modifying Additives for Polymers",
I. Yilgor, E. Yilgor and B. Gruning,
Tenside Surf. Det., 30(3), 158-164 (1993)
24. "Surface Depletion of End Groups in Amine-Terminated Poly(dimethylsiloxane)",
C. J. Jalbert, J. T. Koberstein, R. Balaji, Q. Bhatia, L. Salvati, Jr., and I. Yilgor,
Macromolecules, 27(9), 2409-2413 (1994)

25. "1,3-Bis(γ -aminopropyl)tetramethyldisiloxane Modified Epoxy Resins: Curing and Characterization",
E. Yilgör and I. Yilgör,
Polymer, 39, 1691-1695 (1998)
26. "Thermal Stabilities of End-Groups in Hydroxyalkyl Terminated Polydimethylsiloxane Oligomers",
I. Yilgor and E. Yilgor,
Polym. Bull., 40, 525-532 (1998)
27. "Hydrophilic Polyurethaneurea Membranes: Influence of Chemical Composition on the Water Vapor Permeation Rates",
I. Yilgör and E. Yilgör,
Polymer, 40(20), 5575-5581 (1999)
28. "Catalyst effect on the transesterification reaction between polycarbonate and polycaprolactone-b-polydimethylsiloxane triblock copolymers"
D. Ardal, E. Yilgor and I. Yilgor
Polymer Bulletin, 43, 207-214 (1999)
29. "Comparison of Hydrogen Bonding in Polydimethylsiloxane and Polyether Based Urethane and Urea Copolymers",
E. Yilgör, E. Burgaz, E. Yurtsever and I. Yilgör
Polymer, 41(3), 849-857 (2000)
30. "Hydrogen Bonding: A Critical Parameter in Designing Silicone Copolymers"
Emel Yilgor and Iskender Yilgor
Polymer, 42(19), 7953-7959 (2001)
31. "Modification of polyolefins with silicone copolymers. I. Processing behavior and surface characterization of PP and HDPE blended with silicone copolymers"
Iskender Yilgor, Emel Yilgor and Sefik Suzer
J. Appl. Polym. Sci., 83(8), 1625-1634 (2002)
32. "Modification of polyolefins with silicone copolymers. II. Thermal, mechanical and Tribological behavior of PP and HDPE blended with silicone copolymers"
Emel Yilgor, Tamer Sinmazcelik and Iskender Yilgor
J. Appl. Polym. Sci., 84(3), 535-540 (2002)
33. "Electrospinning of Polyurethane Fibers"
M. M. Demir, I. Yilgör, E. Yilgor and B. Erman
Polymer, 43(11), 3303-3309 (2002)
34. "Hydrogen bonding and polyurethane morphology I. Quantum mechanical calculations of hydrogen bond energies and vibrational spectroscopy of model compounds"
E. Yilgor, I. Yilgor and E. Yurtsever
Polymer, 43(24), 6551-6559 (2002)
35. "Hydrogen bonding and polyurethane morphology II. Spectroscopic, thermal and crystallization behavior of polyether blends with 1,3-dimethylurea and a model urethane compound"
E. Yilgor, E. Yurtsever and I. Yilgor
Polymer, 43(24), 6561-6568 (2002)

36. "Conformational Analysis of Model Poly(ether urethane) Chains in the Unperturbed State and Under External Forces"
I. Yilgor, E. Yurtsever and B. Erman
Macromolecules, 35(26), 9825-9831 (2002)
37. "Influence of Lithium Chloride on the Morphology of Flexible Slabstock Polyurethane Foams and Their Plaque Counterparts"
A. Aneja, G. L. Wilkes, E. Yurtsever and I. Yilgor
Polymer, 44(3), 757-768 (2003)
38. "Surface properties of polyamides modified with reactive polydimethylsiloxane oligomers and copolymers",
E. Yilgor, I. Yilgor and S. Suzer,
Polymer, 44(24), 7271-7279 (2003)
39. "Exploring Urea Phase Connectivity in Molded Flexible Polyurethane Foam Formulations Using LiBr as a Probe",
A. Aneja, G. L. Wilkes, I. Yilgor, E. Yilgor and E. Yurtsever
J. Macromol. Sci. Part B-Physics, B42(6), 1125-1139 (2003)
40. "Isopropyl alcohol: An unusual, powerful, "green" solvent for the preparation of silicone-urea copolymers with high urea contents",
E. Yilgor, G. E. Atilla, A. Ekin, P. Kurt and I. Yilgor,
Polymer, 44(26), 7787-7793 (2003)
41. "Rheology and Extrusion of a Medical-Grade Thermoplastic Polyurethane",
G. Lu, D. M. Kalyon, I. Yilgor and E. Yilgor,
Polym. Eng. Sci., 43(12), 1863-1877 (2003)
42. "Preparation of poly(ether-urea) copolymers in isopropanol. In-situ FTIR studies and polymer synthesis"
Iskender Yilgor, Brian Mather, Serkan Unal, Emel Yilgor, and Timothy E. Long
Polymer, 45(17), 5829-5836 (2004)
43. "Influence of system variables on the morphological and dynamic mechanical behavior of polydimethylsiloxane based segmented polyurethane and polyurea copolymers: A comparative perspective"
J. P. Sheth, A. Aneja, G. L. Wilkes, E. Yilgor, G. E. Atilla, I. Yilgor and F. L. Beyer
Polymer, 45(20), 6919-6932 (2004)
44. "A new generation of highly branched polymers: Hyperbranched, segmented polyurethaneurea elastomers"
S. Unal, I. Yilgor, E. Yilgor, J. P. Sheth, G. L. Wilkes and T. E. Long
Macromolecules, 37(19), 7081-7083 (2004)
45. "Effect of chemical composition on large deformation mechano-optical properties of high strength thermoplastic polyurethaneureas"
S. Curgul, I. Yilgor, E. Yilgor, B. Erman and M. Cakmak
Macromolecules, 37(23), 8676-8685 (2004)

46. "Rheology and Processing of BaSO₄ Filled Medical-Grade Thermoplastic Polyurethane",
G. Lu, D. M. Kalyon, I. Yilgor and E. Yilgor,
Polym. Eng. Sci., 44(10), 1941-1948 (2004)
47. "Influence of annealing on the performance of short glass fiber reinforced polyphenylene sulfide (PPS) composites"
A. Arıcı, T. Sinmazçelik, L. Çapan, I. Yilgor and E. Yilgor
J. Composite Materials, 39(1), 21-33 (2005)
48. "Electrospinning of linear and highly branched segmented poly(urethane urea)s"
M. G. McKee, T. Park, S. Unal, I. Yilgor and T. E. Long
Polymer, 46(7), 2011-2015 (2005)
49. "Understanding the structure development in hyperbranched polymers prepared by oligomeric A₂+B₃ approach: Comparison of experimental results and simulations"
S. Unal, C. Oguz, E. Yilgor, M. Gallivan, T. E. Long and I. Yilgor
Polymer, 46(23), 4533-4543 (2005)
50. "Probing the Hard Segment Phase Connectivity and Percolation in Model Segmented Polyurethaneurea Copolymers"
J. P. Sheth, A. Fornof, T. E. Long, I. Yilgor, and G. L. Wilkes
Macromolecules, 38(13), 5681-5685 (2005)
51. "Role of chain symmetry and hydrogen bonding in segmented copolymers with monodisperse hard segments"
J. P. Sheth, Derek B. Klinedinst, Garth L Wilkes, Iskender Yilgor, Emel Yilgor
Polymer, 46(18), 7317-7322 (2005)
52. "Structure-property behavior of poly(dimethylsiloxane) based segmented polyurea copolymers modified with poly(propylene oxide)"
J. P. Sheth, E. Yilgor, B. Erenturk, H. Ozhalici, I. Yilgor, and G. L. Wilkes
Polymer 46(19), 8185-8193 (2005)
53. "A comparative study of the structure-property behavior of highly branched segmented poly(urethane urea) copolymers and their linear analogs"
J. P. Sheth, S. Unal, E. Yilgor, I. Yilgor, F. L. Beyer, T. E. Long and G. L. Wilkes
Polymer, 46(23), 10180-10190 (2005)
54. "Structure-property behavior of segmented polyurethaneurea copolymers based on an ethylene-butylene soft segment"
D. B. Klinedinst, E. Yilgor, I. Yilgor, F. L. Beyer and G. L. Wilkes
Polymer, 46(23), 10191-10201 (2005)
55. "Time-dependent morphology development in a segmented polyurethane with monodisperse hard segments based on 1,4-phenylene diisocyanate"
Jignesh P. Sheth, Derek B. Klinedinst, Todd W. Pechar, Garth L. Wilkes, Emel Yilgor and Iskender Yilgor
Macromolecules, 38(24), 10074-10079 (2005)
56. "Structure–property behavior of new segmented polyurethanes and polyureas without use of chain extenders"
D. B. Klinedinst, J. P. Sheth, E. Yilgor, I. Yilgor, F. L. Beyer and G. L. Wilkes
J. Rubber Chemistry, 78(5), 737-753 (2005)
57. "Luminescent Nd³⁺ doped silicone-urea copolymers"
Umit Demirbas, Adnan Kurt, Alphan Sennaroglu, Emel Yilgor and Iskender Yilgor
Polymer, 47(4), 982-990 (2006)

58. "Anomalous Dilute Solution Properties of Segmented Polydimethylsiloxane-Polyurea Copolymers in Isopropyl Alcohol"
Iskender Yilgor, Thomas C. Ward, Emel Yilgor and G. Ekin Attila
Polymer, 47(4), 1179-1186 (2006)
59. "Highly Branched Poly(arylene ether)s via Oligomeric A₂+B₃ strategies"
Qin Lin, Serkan Unal, Ann R. Fornof, Iskender Yilgor and Timothy E. Long
Macromolecular Chemistry and Physics, 207, 576-586 (2006)
60. "FTIR Investigation of the Influence of Diisocyanate Symmetry on the Morphology Development in Model Segmented Polyurethanes"
Iskender Yilgor, Emel Yilgor, I. Guclu Guler, Thomas C. Ward and Garth L. Wilkes
Polymer, 47(11), 4105-4114 (2006)
61. "Structure-property relationships and melt rheology of segmented, non-chain extended polyureas: Effect of soft segment molecular weight"
S. Das, I. Yilgor, E. Yilgor, B. Inci, O. Tezgel, F. L. Beyer and G. L. Wilkes,
Polymer, 48(1), 290-301 (2007)
62. "Effect of Symmetry and H-bond Strength of Hard Segments on the Structure-Property Relationships of Segmented, Non-Chain Extended Polyurethanes and Polyureas"
S. Das, D. B. Klinedinst, I. Yilgor, E. Yilgor, F. L. Beyer, D. F. Cox and G. L. Wilkes
J. Macromol. Sci., Part B: Phys., 46(5), 853-875 (2007)
63. "Structure-morphology-property behavior of segmented thermoplastic polyurethanes and polyureas prepared without chain extenders"
I. Yilgor and E. Yilgor
Polymer Reviews, 47(4), 487-510 (2007)
64. "Probing the urea hard domain connectivity in segmented, non-chain extended polyureas using hydrogen-bond screening agents"
Sudipto Das, Iskender Yilgor, Emel Yilgor and Garth L. Wilkes
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E. PATENTS

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4. WATERPROOF, MOISTURE VAPOR PERMEABLE POLYMERS, FILMS AND TEXTILE COATINGS
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7. "ADDITIVES FOR PAINTABLE AND PRINTABLE POLYOLEFIN COMPOSITIONS
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10. FABRIC CARE COMPOSITIONS COMPRISING ORGANOSILOXANE POLYMERS
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<u>Country</u>	<u>Application No</u>	<u>Application date</u>
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F. MS AND PHD SUPERVISION

MS THESIS

1. "Investigation of the effect of diisocyanate symmetry and soft segment molecular weight on the structure-property behavior of non-chain extended, segmented polyureas"
Bora İnci, Koç University, (2005 - 2007).
2. "Highly branched segmented polyurea and polyurethane elastomers through oligomeric A2+B3 approach"
Seda Çakır, Koç University, (2005 - 2007).
3. "Preparation and characterization of novel silicone-urea copolymers and nanocomposites"
Tuğba Eynur, Koç University, (2006 – 2008).
4. "Novel self healing acrylic elastomers"
Sevilay Bilgin, Koç University, (2007 – 2009).
5. "Preparation and characterization of silica filled polyurethaneurea nanocomposites: Influence of soft segment structure and silica type on the properties"
Çağla Koşak, Koç University, (2009 – 2011).
6. "Influence of soft segment structure and molecular weight on the morphology and properties of segmented polyurethaneureas"
Pırl Ertem, Koç University, (2009 – 2011).
7. "Preparation of polycaprolactone-b-polydimethylsiloxane triblock copolymers. Investigation of structure-morphology-property relationships"
Mehmet Işık Koç University, (2009 – 2011).
8. "Effect of Soft Segment Structure and Hard Segment Content on Surface and Bulk Properties of Segmented Polyurethaneureas"
Melis Peniç Koç University, (2012 – 2014).
9. "Investigation of novel polyurethane compositions: Synthesis, characterization and structure-morphology-property behavior"
Armen Yildirim, Koç University, (2013-2015).

PHD THESES

1. "Catalyst effect on the transesterification reactions between polycarbonate and polycaprolactone-b-polydimethylsiloxane triblock copolymers"
Deniz Ardal, Boğaziçi University, (1994 – 1998) (Co-advisor Prof. B. Baysal)
2. "Design, preparation and characterization of polymer surfaces with controlled wettability: From superhydrophilic to superhydrophobic"
Çağla Koşak, Koç University, (2011 – 2015)
3. "Tailor-designed, multifunctional segmented copolymers and their evaluation and use as biomaterials"
Özgün Can Önder, Koç University, (2014 –)
4. "Electrospun hydroxyapatite/PLA nanocomposite scaffolds for bone regeneration"
Anwaar Nazeer, Koç University, (2014 –)

G. SPONSORED RESEARCH PROJECTS

1. DEVELOPMENT OF DIRECTLY PAINTABLE POLYOLEFINS FOR AUTOMOTIVE APPLICATIONS
Funded by: FIAT
Duration: 1/1997 – 12/1997
Amount: 20,000 USD
2. DEVELOPMENT OF BREATHABLE, WATERPROOF TPU BASED TEXTILE COATINGS FOR MILITARY APPLICATIONS
Funded by: TURKISH ARMY
Duration: 4/1998 – 9/1999
Amount: 210,000 USD
3. DEVELOPMENT OF WATER REPELLANT POLYAMIDE FIBERS THROUGH BLENDING WITH REACTIVE SILICONE OLIGOMERS AND SILICONE CONTAINING COPOLYMERS
Funded by: NYLSTAR, Milan, Italy
Duration: 1/1999 – 12/1999
Amount: 41,000 USD
4. INVESTIGATION OF THE STRUCTURE-PROPERTY BEHAVIOR OF BIODEGRADABLE POLYESTERS PRODUCED BY BACTERIA
(Joint with University of Akron, Sabanci University and Karaelmas University)
Funded by: NSF, USA
Duration: 1/1999 – 1/2002
Amount: 30,000 USD
5. STRUCTURAL ANALYSIS OF THERMOPLASTIC POLYURETHANES
Funded by: Stevens Institute of Technology, Hoboken, NJ, USA
Duration: 1/2002 – 8/2002
Amount: 10,000 USD
6. SYNTHESIS AND CHARACTERIZATION OF HYPERBRANCHED POLYURETHANEUREAS AND INVESTIGATION OF THEIR STRUCTURE-PROPERTY BEHAVIOR
Funded by: TÜBİTAK
Duration: 6/2005 – 6/2007
Amount: 85,000 USD
7. DESIGN AND SYNTHESIS OF NOVEL SILICONE-UREA COPOLYMERS WITH LOW HYSTERESIS AND COMPRESSION SET
Funded by: WACKER CHEMIE, Munich, Germany
Duration: 5/2006 – 5/2007
Amount: 70,000 EURO
8. DEVELOPMENT OF ORGANOSILOXANE COPOLYMERS FOR FABRIC CARE
Funded by: Procter and Gamble
Duration: 5/2007 – 5/2009
Amount: 100,000 USD
9. SYNTHESIS AND CHARACTERIZATION OF SILICA FILLED POLYETHER POLYURETHANES
(Joint with Sabanci University)
Funded by: TÜBİTAK
Duration: 1/2009 – 1/2012
Amount: 200,000 USD

11. REGENERATION OF WOOL FIBERS
Funded by: YUNSA
Duration: 6/2011 – 5/2012
Amount: 20,000 USD
12. INVESTIGATION OF THE SILICONE SURFACE COATINGS ON POLYACRYLONITRILE FIBERS
Funded by: AKSA
Duration: 8/2011 – 4/2012
Amount: 40,000 USD
13. SURFACE MODIFICATION OF CARBON FIBERS FOR IMPROVED ADHESION TO MATRIX RESINS
Funded by: AKSA
Duration: 8/2011 – 4/2012
Amount: 40,000 USD

H. OTHER FUNDING

1. ESTABLISHMENT OF "KOÇ UNIVERSITY SURFACE SCIENCE AND TECHNOLOGY CENTER – KUYTAM"

Funded by:	Turkish State Planning Organization
Duration:	5/2010 – 5/2012
Amount:	10,000,000 USD