



Shenkar  
Engineering, Design, Art



**Prof. Hanna Dodiuk-Kenig**  
**Shenkar College of Engineering, Design, Art.**  
**Head of Polymers and Plastics Engineering**  
**Israel**

**Education**

- 1970 B.Sc. (Chemistry), Tel-Aviv University, Ramat Aviv, Israel, 1970
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- 1973 M.Sc. (Physical Organic Chemistry, with Distinction), Tel-Aviv University, Ramat Aviv, Israel, 1973.
- 1977 Ph.D. (Physical Organic Chemistry, with Summa cum Laude), Tel-Aviv University, Ramat Aviv, Israel, 1977
- 1997 B.A. Business Administration Diploma, Haifa University, Israel, 1997

**ACADEMIC AND PROFESSIONAL EXPERIENCE**

- 1970-1974 Graduate Assistant, Department of Chemistry, Tel-Aviv University, Ramat Aviv Israel
- 1974-1977 Instructor, Department of Chemistry, Tel-Aviv University, Tel-Aviv, Israel (Physical and Organic Chemistry).
- 1977-1978 Postdoctoral Research Assistant, Department of Chemistry, Tel-Aviv University, Ramat-Aviv Israel (Physical and Organic Chemistry).
- 1979 EMBO Postdoctoral Fellow, Max-Planck Institute fur Biophysikalische Chemie, Gottingen, Germany.
- 1979-1981 System Engineer, Israel Ministry of Defense.
- 1981-1985 Head of "Adhesion and Polymer Testing" Group, part of the Materials and Processes Department at the Armament Development Authority (ADA), Ministry of Defense (MOD), Israel.
- 1985-1986 Head of Adhesion and Encapsulation Section. Includes over 35 workers.

- 1986-1987 Visiting Professor, Polymer Research Institute, Polytechnic University, Brooklyn, New York 11201, USA.
- 1987-1991 Head of Adhesion and Encapsulation Section, RAFAEL. Includes 35 workers.
- 1991-1997 Head of Materials and Processes Department, RAFAEL. Includes 205 workers.
- 1991-2000 Affiliate Associate Professor, Department of Chemistry, Technion - Israel Institute of Technology (Polymer Chemistry, Adhesion and Adhesives).
- 1996-2000 Affiliate Associate Professor, Shenkar College of Textile Technology and Fashion, Ramat Gan, Israel (Polymer Chemistry, Thermosetting Polymers, Adhesion and Adhesives, Organic Chemistry).
- 2000-present Full professor, Shenkar College for Engineering & Design.  
Department of Polymers and Plastics Engineering
- 1997-1998 Director of R&D, HPM/STADCO Corp., Los Angeles, U.S.A. (Sabbatical).
- 1999 Visiting Scientist, Bayer - AG, Leverkusen, Germany.
- 2005 Member of the advisory board for nanotechnology, Triton System Inc., Chemsford, , Ma ,USA
- 2005 Visiting Scientist consultant, New Jersey Institute of Technology, Newark, NJ, USA.
- 2006 Visiting Professor, New Jersey Institute of Technology, Newark, NJ, USA
- 2006-present The Head of Polymers and Plastics Engineering Department, Shenkar College, Ramat-Gan, Israel.
- 2013 Visiting Professor, UMASS Lowell, Center for High-Rate Nanomanufacturing, USA

## **TEACHING EXPERIENCE**

Polymer chemistry - Shenkar College and Chemistry Dept., Technion.

Adhesion science and Technology – Shenkar college and Chemistry Dept., Technion.

Organic Chemistry - Shenkar College.

Thermosetting polymers - Shenkar College.

Introduction to Plastics Engineering - Shenkar College.

Characterization methods for polymers - Shenkar college

Polymer chemistry-Advanced chapters –Shenkar College

Advanced Application of polymers -Shenkar College

Instruction of variety courses in Technion, RAFAEL and continuing education in

Adhesion and Adhesives, Interfaces, Polymer chemistry etc.,

## **ACADEMIC AND PROFESSIONAL AWARDS**

1970-1971 Distinction in studies, Tel-Aviv University, Tel-Aviv, Israel.

1971-1972 Distinction in studies, Tel-Aviv University, Tel-Aviv, Israel.

1972-1973 Distinction in studies, Tel-Aviv University, Tel-Aviv, Israel.

1974-1975 Distinction in studies, Tel-Aviv University, Tel-Aviv, Israel.

1976-1977 Distinction in studies, Tel-Aviv University, Tel-Aviv, Israel.

1978 Bat-Sheva Grant.

1979 EMBO Fellowship (short term), Gottingen, Germany.

1984 "The Women in Technology", Israel.

1998 The Lady Globbs award for distinguished women in Industry", Israel.

2011 The Francis Shenkar Awards, Shenkar College, Israel.

2013 Honorary fellow of the Israel Polymer and Plastics Society

## **PROFESSIONAL ACTIVITIES**

### **Membership and Professional Activities**

1979	Israel Chemical Society.
1977	Inter-American Photochemical Society.
1980-1987	Adhesion Society, American Chemical Society, Polymer Chemistry.
1986	Society for the Advancement of Material and Processing Engineering (SAMPE)
1988-1991	Treasurer of the Israeli Polymers and Plastics Society.
1991-present	The Israeli Polymer and Plastics Society Board.
1992-present	Society for Plastics Engineering. The Adhesion Society. Israel Society of Polymers and Plastics. The New York Academy of Science.
1998-2000	The President of the Israeli Polymer and Plastics Society.
1998-2000	The Israeli representative in the Scientific Committee of the Polymer Characterization Society (Polychar)
1998-2000	The Israeli Materials Society advisory Board (Agil)
2010-present	The American Chemical Society

### **Editorial Activities**

1988-1998	Technical Editors of Polymers and Plastics in Israel Journal.
1994-1999	Editorial Advisory Board Member, The Israeli Journal of Chemistry.
1993-present	Editorial Advisory Board Member, International Journal of Adhesion Science and Technology.
2012-present	Editorial Advisory Board Member , Reviews of Adhesion and Adhesives.

## **CONFERENCE/WORKSHOP and COMMITTEE – NOMINATIONS**

- 1987 Organizing International Committee of the 10th Annual Meeting of the Adhesion Society, Williamsburg, Virginia, USA, February 22-27.
- 1987 Chairperson in the IUPAC International Symposium on Polymers for Advanced Technology, Jerusalem, Israel, August 16-22.
- 1994 Organizing Committee of the Seventh Israeli Materials and Engineering  
December 27-29. Conference, Technion - Israel Institute of Technology, Israel,
- 1995 Member of Advisory Committee and Chairman, International  
October 16-20 Conference on Adhesion Science and Technology (ICAST 95),  
Amsterdam, Holland
- 1995-1998 Member of the National Committee for Advanced Materials and  
Processes, nominated by the Ministry of Science (MOS).
- 1996 Member of Advisory Committee and Chairman, International  
May 5-8 Conference on Composite Interfaces, Ganei Carmel Hotel, Zichron  
Yaacov, Israel,
- 1996-1998 Member of the Israel-German Steering Committee, nominated by the  
Ministry of Science (MOS).
- 1996-1998 Member of the Israel-German Evaluation Committee, nominated by the  
Ministry of Science (MOS).
- 1996-1998 Israeli Representative in the European Commission for Materials and  
Industrial Technologies Program (Brite-Euram), nominated by the  
Ministry of Commerce and Industry
- 1998 Organizing Committee and Chairman of the meetings of the Israeli  
Polymers and Plastics Society on May 19, 1998 and December 16,  
1998. Israel
- 1998 Organizing Committee and Chairman of the Agil Conference November  
25-26 Ramat Gan - Israel.
- 1999 Scientific Committee of the Israeli Materials Engineering Conference  
(IMEC-9), 6-7/12/1999, Haifa – Israel

- 1999 Organizing and Scientific Committee of the 28<sup>th</sup> Annual Israeli Polymers and Plastics Conference, Technion, 6-7.12.1999, Haifa - Israel
- 1999 Organizing Committee of the PAT 2001 (Polymers for Advanced Technology) Jerusalem 2001, Israel.
- 1999-2004 Many Organizing Committees for Israeli Polymers and Plastics Conferences.
- 2004 Organizing Committee of the PPS-20, June 20-24, 2004 Akron, Ohio, USA.
- 2005 Nanotechnology session chairperson and organizing committee off the Adhesion Society Meeting, 13-16 february 2005 Alabama, USA
- 2010 Organizing Committee of the Special Symposium on Recent Advances in Adhesion Science and Technology, Boston, MA, USA, August 22-26, 2010
- 2014 Organizing Committee of PPS 2014 in Israel.

#### **INVITED LECTURES (Research Institutions and Industry)**

- 1978 Universite de Lausanne, Switzerland.
- 1979 Organic Chemistry Institute, University of Heidelberg, Heidelberg, Germany.
- 1979 Max Planck Institute fur Biophysikalische Chemie, Gottingen, Germany.
- 1979 Biological Institute, Nes-Ziona, Israel.
- 1984 Plastic Department Seminar, Weizmann Institute of Science, Rehovot, Israel.
- 1985 National Bureau of Standards, Washington, USA.
- 1986 Celanese, New Jersey, USA, November 7.
- 1987 University of Wisconsin, Material Science Department, Madison, Wisconsin, January 22, USA
- 1987 3M, St. Paul, Minneapolis, January 19, USA.
- 1987 Martin Marietta Laboratories, Baltimore, Maryland, May 15, USA.
- 1987 United Technology, Hartford, Connecticut, May 27, USA.
- 1987 Polytechnic University of New York, Brooklyn, NY, June 16, USA.

- 1987 University of Massachusetts, Amherst, Massachusetts, July 7, USA.
- 1987 BF Goodrich Company, Cleveland, Ohio, July 15, USA.
- 1989 Tel Aviv University, Physical Department, April 12, Israel.
- 1991 Tel Aviv University, Chemistry Department, February 12, Israel.
- 1991 Technion - Israel Institute of Technology, Department of Chemistry, April 25, Israel.
- 1992 Bromine Compounds, Ltd., Beer-Sheva, February 23, Israel.
- 1992 Raychem Corporation, Menlo Park, California, April 29.
- 1992 National Institute of Standards and Technology, July 9, USA.
- 1992 University of Maryland, Baltimore, July 10, USA.
- 1992 Technion Materials Engineering Department, Haifa, Israel, December 4.
- 1992 Tel Aviv University, Chemistry Department, Israel, December 14.
- 1993 Melbourne DSTO, MRL Australia, February 17.
- 1998 Bayer Com., Leverkusen, Germany, October 27.
- 2003 Tel-Aviv University Joint Materials Seminars 4.12.2002
- 2004 The University of Texas, Dental School August 18,
- 2004 New-York University ,college of Dentistry , August 23
- 2004 Bayer, Germany, March 20
- 2006 Triton Ltd, USA, October 6
- 2006 New Jersey Institute of Technology, USA, August 25
- 2007 Penn State University, Pennsylvania, USA, February 15.

## **FIELDS OF ACTIVITY**

### **General**

Managing Director of Materials and Processes Department including business development, marketing, local and international (25 M\$), financial management, research and development strategies, policy making of research, development, production, finance and marketing. Design of experiments, planning and organization of laboratories, drawing up proposals, supervision of staff of 205 professionals and technicians.(1991-1997)

## **Professional**

### **Polymer Characterization**

Investigations of chemical, physical and mechanical properties of thermosetting resins used in high performance aerospace systems (structural adhesives and composites). Developed and authored materials specification for qualifying thermoset resins (epoxy and hardeners, polyurethanes, polysulfides, RTV's silicone rubber, etc.).

### **Nanotechnology**

Hyperbranched and dendritic polymers incorporated in thermosetting polymers, nanoparticle (organic/inorganic) as fullerenes, POSS or Nanoclays incorporated into thermoset adhesives and composites and related nanotechnology phenomena.

Functional coatings Ultra Hydrophobic surfaces, self cleaning and ice repellent surface, Ultra Hydrophilic surfaces, antifog, anti fouling etc.

### **Biopolymers**

Biomaterials especially adhesives and coatings for biorelated functions, bone glue, dental adhesives, HIP PU coatings, stents coatings, implant etc.

### **Surface and Interface Analysis**

Investigation of chemical and physical properties of surfaces and interfaces and their correlation with adhesive mechanical properties and structural property, using spectroscopic characterization by FTIR, Auger and ESCA and AFM techniques.

Study of wetting behavior, surface energetic and modifications by monolayers coatings.

### **Adhesion and Adhesives**

Processes and technology of adhesion for various adhesive systems, (aerospace ,medical electronic applications etc); including selection and evaluation of surface treatments for adherends, material selection and formulation, testing of adhesives bonded joints.

### **Aging of Polymeric Materials**

Studies on the effects of moisture/temperature and mechanical loads on adhesives and composites during storage and/or service life- durability.

## **Research projects and on going research**

Supervised variety of R&D projects in RAFAEL Materials and Processes Department from 1979 to 1998, in HPM/STADCO Company, USA (1997 - present), Nanomotion, Ambient and BJM Labs, Bayer-AG, Leverkusen, Germany (1999 - present), and Shenkar College ,the Polymers and plastics Engineering Department(1997-present).

1. Microwave processing of polymers (HPM Company) in cooperation with JPL (Jet Propulsion Laboratory), NASA ,Pasadena, USA
2. Microwave curing of thermosets (RAFAEL).
3. Aging of thermoplastics and thermosets (RAFAEL in cooperation with the Technion, Materials and Chemical Engineering Departments).
4. Adhesion and adhesives (RAFAEL).
5. Toughening of polyesters and epoxies (RAFAEL and Technion).
6. Interfaces in adhesive bonding and composites (RAFAEL).



7. Laser surface treatment of metals, polymers and ceramics (RAFAEL with the Metal Institute in Technion).
8. Laser surface treatment of composites (RAFAEL with the Metal Institute in Technion).
9. Bonding and fatigue study of advanced piezoelectric small motors (Nananomotion Company with Technion).
10. Development of advanced packaging polymers for smart cards (Ambient Company).
11. Development of advanced adhesives and composites for dental use (B.J.M Laboratories).  
Tailoring new Dendritic Architecture for thermoset adhesives (PU, Epoxy, dental etc.).  
Nanotailoring of Thermosetting Adhesives using Nanofillers (POSS, NANOCLAYS etc.)
12. Development of adhesives for bones and implants (Vatech-Bio), development of coating for advanced stents (Allium) and shell PU coating for hip replacement (Impliant).
13. Ultrahydrophobic and self-cleaning surfaces (Palram) and ice repellent surfaces (Ministry of Defence, Mabat etc.)
14. Formulations of nanoparticles (nanotubes, Inorganic Fullerenes, Nanoclays, POSS etc.) in thermosets (epoxy, polyurethanes, phenolic acrylates etc) and characterizations of the nano adhesives and nanocomposites.  
Development of adhesives and composite based on renewable sources and green technology and raw materials.
15. Supervisor and Coadviser to M.Sc. and Ph.D. graduate students in the academia (Tec  
Development of adhesives and composite based on renewable sources and green technology and raw materials  
Supervisor and Coadviser to M.Sc. and Ph.D. graduate students in the academia (Technion, Shenkar, Tel-Aviv University Weizmann Institute, Israel, New Jersey Institute of Technology, UMass Lowell, USA etc.

**Prof. Hanna Dodiuk-Kenig**  
***List of Publications***

**A. M.Sc. Thesis**

H. Dodiuk

“Synthesis and Investigation of the Thermal Isomerization of Heterofulvene Systems”

Department of Chemistry, Tel Aviv University, Ramat Aviv, Israel, 1972.

**B. Ph.D. Thesis**

H. Dodiuk

“Studies on the Excited states Behavior of N-Arylamino-naphthalene-sulfonates”

Department of Chemistry, Tel Aviv University, Ramat Aviv, Israel, 1977.

**C. Journal Papers (Refereed)**

1. I. Belsky, H. Dodiuk and Y. Shvo  
“The synthesis and properties of heterofulvenes, derivatives of 2, 6-Dimethyl-  
-Prone and -Thiapyrone and N-Butyl-2, 6-Dimethyl-Pyridone”  
*J. Org. Chem.*, 39, 991-995, (1974).
2. I. Belsky, H. Dodiuk and Y. Shvo  
“Thermal isomerization of heterofulvenes dynamic NMR study”  
*J. Org. Chem.*, 42, 2734, (1977).
3. E.M. Kosower and H. Dodiuk  
“Fast inter-system crossing from vibrationally excited  $S_{1,np}$  states of  
2-N-Arylamino-6-Naphthalenesulfonates”  
*Chem. Phys. Lett.*, 26, 545-548, (1974).
4. E.M. Kosower and H. Dodiuk  
“Fluorescence of 2-N-Arylamino-6-Naphthalenesulfonates in glycerol”  
*J. Am. Chem. Soc.*, 96, 6195-6196, (1974).
5. E.M. Kosower, H. Dodiuk, K. Tanizawa, M. Ottolenghi and N. Orbach  
“Intramolecular donor-acceptor systems. Radiative and non-radiative  
processes for the excited states of 2-N-Arylamino-6-Naphthalenesulfonates”  
*J. Am. Chem. Soc.*, 97, 2167-2177, (1975).  
6. H. Dodiuk and E.M. Kosower  
“Multiple fluorescences from the excited state of N-Methyl-2-N-Phenylamino-

6. Naphthalenesulfonate in glycerol: fast proton transfer”  
*Chem. Phys. Lett.*, 34, 253-257, (1975).
7. E.M. Kosower and H. Dodiuk  
“Multiple fluorescences II. A new scheme for 4-N, N Dimethylaminobenzonitrile including proton transfer”  
*J. Am. chem. Soc.*, 98, 824-929, (1976).
8. E.M. Kosower and H. Dodiuk  
“Multiple fluorescences III. Methyl 2,6 Dihydroxybenzoate and Methyl Salicylate”  
*J. Lum.*, 11, 249-254, (1976).
9. H. Dodiuk and E.M. Kosower  
“Intramolecular donor-acceptor systems II. Substituent effects on the fluorescent probes, 2-N-Arylamino-6-Naphthalene-sulfonamides”  
*J. Phys. Chem.*, 81, 50-54, (1977).
10. H. Dodiuk and E.M. Kosower  
“Multiple Fluorescences IV. The protonated form of N-Alkyl-2-N-Arylamino-6-Naphthalenesulfonates”  
*J. Am. Chem. Soc.*, 99, 859-866, (1977).
11. H. Dodiuk, E.M. Kosower, M. Ottlenghy and N. Orbach  
“Multiple fluorescences V. Different triples from N-Methyl-2-N-Phenylamino-6-Naphthalenesulfonate and its C-protonated form by laser pulse photolysis”  
*Chem. Phys. Lett.*, 49, 174, (1977).
12. E.M. Kosower, H. Dodiuk, B. Thulin and O. Wennerstrom  
“On the fluorescence of propellicene”  
*Acta Chem. Scan.*, B31, 526-528, (1977).
13. E.M. Kosower and H. Dodiuk  
“Intramolecular donor-acceptor systems III. A third type of emitting singlet state for N-Alkyl-6-N-Arylamino-2-Naphthalenesulfonates”  
*J. Am. Chem. Soc.*, 100, 4173-4179, (1978).
14. E.M. Kosower, H. Dodiuk and H. Kanety  
“Intramoleuclar donor-acceptor systems IV. Solvent effects on radiative and non-radiative processes for the charge transfer states of N-Arylamino-naphthalenesulfonates.  
*J. Am. Chem. Soc.*, 100, 4179-4188, (1978).

15. E.M. Kosower and H. Dodiuk  
“Intramolecular donor-acceptor systems V. Heavy atom effects on excited state of 6-N-Arylamino-2-Naphthalenesulfonate derivatives”  
*J. Phys. Chem. Soc.*, 82, 2112-2015, (1978).
16. H. Dodiuk, H. Kanety and E.M. Kosower  
“The Apoamyoglobin-Arylamino-naphthalenesulfonate system: New insight into fluorescent behavior”  
*Proc. of J. Luminescence*, 18/19, 495-499, (1979).
17. H. Dodiuk, H. Kanety and E.M. Kosower  
“The Apoamyoglobin-Arylamino-naphthalenesulfonate system: Insight into fluorescent probe responses by substituent modulation”  
*J. Phys. Chem.*, 83, 515-521, (1979).
18. H. Dodiuk and E.M. Kosower  
“Trapped charge-transfer states in Bis-Naphthylamine derivatives”  
*J. Phys. Chem.*, 83, 2053, (1979).
19. D. Huppert, H. Dodiuk, H. Kanety and E.M. Kosower  
“Picosecond spectroscopic measurements of very fast inter-system crossing for 9, 10-Dioxa-anti-Bimanes”  
*Chem. Phys. Lett.*, 65, 164-168, (1979).
20. E.M. Kosower, B. Pazhenchevsky, H. Dodiuk, H. Kanety and D. Faust  
“Bimanes. 6. Reactive halogen derivatives of syn- and anti- 9,10-Dioxabimanes.  
*J. Org. Chem.*, 46, 1666-1673, (1981).
21. E.M. Kosower, B. Pazhenchevsky, H. Dodiuk, M. Ben Shoshan and H. Kanety  
“Bimanes. 7. Synthesis and properties of 4,6-Bridged-syn-9,10-Dioxabimanes”  
*J. Org. Chem.*, 46, 1673-1679, (1981).
22. H. Kanety, H. Dodiuk and E.M. Kosower  
“Bimanes. 10. Photochemical rearrangement of 9,10-Dioxa-anti-bimanes”  
*J. Org. Chem.*, 47, 207-213, (1982).
23. E.M. Kosower, H. Kanety, H. Dodiuk and J. Hermolin  
“Bimanes. 9. Solvent and substituent effects on intramolecular charge-transfer quenching of the fluorescence of syn-9,10-Dioxabimanes”  
*J. Phys. Chem.*, 86, 1270-1277, (1982).
24. E.M. Kosower, H. Kanety and H. Dodiuk  
“Bimanes. 8. Photophysical properties of syn- and anti-9,10-Dioxabimanes”  
*J. Photochem.*, 22, 171-182, (1983).

25. E.M. Kosower, H. Kanety, H. Dodiuk, G. Striker, T. Jovin, H. Boni and D. Huppert  
 "Intramolecular donor-acceptor systems 7. Solvent dielectric relaxation effects on the photophysics of 6-N-Arylamino-2-Naphthalenesulfon-N, N-Dimethylamides"  
*J. Phys. Chem.*, 87, 2479-2484, (1983).
26. I.E. Klein, J. Sharon, A.E. Yaniv, H. Dodiuk and D. Katz  
 "Chemical interactions in the system anodized aluminum-primer adhesive"  
*Int. J. Adhesion and Adhesives*, 3, 159-162, (1983).
27. A.E. Yaniv, I.E. Klein, J. Sharon and H. Dodiuk  
 "Bonding of adhesive primers to aluminum substrates"  
*Surface and Interface Analysis*, 5, 93-97, (1983).
28. H. Dodiuk, L. Drori and J. Miller  
 "The effect of moisture content in epoxy film adhesives on their performance: I: Lap shear strength."  
*J. Adhesion*, 17, 33-44, (1984).
29. F. Flashner, I. Zewi, H. Dodiuk and L. Drori  
 "Durability of structural adhesive joints"  
*Int. J. Adhesion and Adhesives*, 4, 137-139, (1984).
30. F. Flashner, S. Kenig, I.G. Zewi and H. Dodiuk  
 "Fracture toughness of adhesively bonded joints"  
*Engineering Fracture Mechanics*, 31, 987, (1985).
31. A.E. Yaniv, N. Fin, H. Dodiuk and I.E. Klein  
 "Oxide treatments of Al 1100 for adhesive bonding - surface characterization"  
*Application of Surface Science*, 20, 538, (1985).
32. H. Dodiuk, L. Drori and J. Miller  
 "The effect of moisture content in epoxy film adhesives on their performance. II: T-peel ad 105°C lap shear strengths"  
*J. Adhesion* ., 19, 1-13, (1985).
33. H. Dodiuk, A. E. Yaniv, J. E. Klein, N. Fin and L. Drori  
 "Chemical interaction in the system aluminum oxide-primer-adhesive"  
*Application of Surface Science*, 25, 137-153, (1986).
34. H. Dodiuk, L. Drori and J. Miller  
 "Preconditioning of epoxy film adhesive for bond strength improvement"  
*Int. J. Adhesion and Adhesives*, 4, 169, (1985).

35. H. Dodiuk, S. Kenig and I. Liran  
“Room temperature curing epoxy adhesives for elevated temperature service”  
*J. Adhesion*, 22, 227-251, (1987).
36. H. Dodiuk, N. Fin and A.E. Yaniv  
“Oxide treatments of Al-2024 for adhesive bonding surface characterization”  
*Applied Surface Science*, 28, 11-33, (1987).
37. H. Dodiuk, N. Fin and A.E. Yaniv  
“Characterization of oxidized Al-1100 exposed to hydrothermic environments”  
*Applied Surface Science*, 29, 67-85, (1987).
38. A. Buchman, H. Dodiuk and S. Kenig  
“The effect of moisture content in epoxy film adhesives on their performance”  
III: Bulk properties.  
*J. Adhesion*, 24, 229-243, (1987).
39. A. Marmur, H. Dodiuk and D. Pesach  
“The effect of contamination on adhesion strength: Wettability characterization  
by CSC method”  
*J. Adhesion*, 24, 139-155, (1987).
40. H. Dodiuk  
“The role of chemical bond in the interface layers of bonded joints - literature  
review”  
*Polymer of the Plastic Industry*, 1, June 1986.
41. H. Dodiuk, A. Buchman and S. Kenig  
“Polyurethane adhesives with silane coupling agents”  
Polymers for Advanced Technologies.  
*IUPAC International Symposium*, Edited by Menachem Lewin, VCH  
Publishers,  
Inc., 1988, pp. 838-862.
42. H. Dodiuk and S. Kenig  
“The effect of surface penetration on the performance of acrylic adhesive  
joints”  
*Int. J. Adhesion and Adhesives*, 159-267, August 1988.
43. S. Wasserman, M. Snir, H. Dodiuk and S. Kenig  
“Transmission and mechanical properties of optical adhesives”  
*J. Adhesion*, 27, 67-81, (1989).
44. H. Dodiuk, N. Fin, A.E. Yaniv and S. Kenig  
“Interfacial characterization of epoxy bonded maraging – steel”  
*J. Adhesion*, 31, 191-202, (1990).

45. M. Snir, S. Wasserman, H. Dodiuk and S. Kenig  
 "Mechanical and optical properties of UV curable modified acrylic adhesives"  
*J. Adhesion*, 27, 175-185, (1989)
46. G. Sharon, H. Dodiuk and S. Kenig  
 "Effects of loading rate and temperature on the mechanical properties of structural adhesives containing a carrier"  
*J. Adhesion*, 31, 21-33, (1989).
47. G. Sharon, H. Dodiuk and S. Kenig  
 "Hygrothermal properties of epoxy film adhesives"  
*J. Adhesion*, 30, 87-104, (1989).
48. H. Dodiuk, S. Kenig and I. Liran  
 "Room temperature curing epoxy adhesives for elevated temperature service"  
 Adhesion International 1987, Proceedings of the 10th Annual Meeting of the Adhesion Society, Inc. Edited by Louis H. Sharpe. Gordon and Beach Science Publishers, Switzerland, pp. 339-363, (1989).
49. E. Segal, P. Dickstein, Y. Segal, S. Kenig and H. Dodiuk  
 "A novel method of processing pulse echo data in adhesive bond inspection"  
*J. Nondestructive Evaluation*, 9, 257-273, (1990).
50. J. Rezek, M. Angelovich, M. Landkof, N. Fin and H. Dodiuk  
 "Chromic acid anodization of titanium alloy 6-Al-4V for adhesive bonding"  
*Israel J. Technology*, 24, 549-555, (1988).
51. S. Wasserman, M. Snir, H. Dodiuk and S. Kenig  
 "Transmission and mechanical properties of optical adhesives"  
*Israel J. Technology*, 24, 667-673, (1988).
52. A. Kalehora, S. Sali, A. Hamish and H. Dodiuk  
 "Adhesion of epoxy filleting - adhesives and parylene conformal coating to plasma treated solder mask coating substrates"  
*Circuit World*, 15, 18-21, (1989).
53. H. Dodiuk, S. Kenig and I. Liran  
 "Room temperature curing epoxy adhesives for elevated temperature service. Part II: Composition, properties, microstructure relationships"  
*J. Adhesion*, 31, 203-221, (1990).
54. E. Margalit, H. Dodiuk, E.M. Kosower and A. Katzir  
 "Infrared fiber evanescent wave. Spectroscopy for in-situ monitoring of chemical processes"  
*SPIE International Society for Optical Engineering IV*. 15-20 January, 1989, Los Angeles, USA. Proceedings of "Infrared, Fiber Optics".

55. H. Dodiuk, S. Kenig, N. Fin  
 "The effect of moisture content on the performance of epoxy film adhesives.  
 Part IV: Aluminum filled epoxy"  
*J. Adhesion*, 26, 315-336, (1988).
56. E. Margalit, H. Dodiuk, E.M. Kosower and A. Katzir  
 "Evanescent infrared spectroscopy using silver halide optical fibers facilitates  
 in-situ monitoring of processes"  
 Submitted to *Applied Physics Letters*.
57. E. Margalit, H. Dodiuk, E.M. Kosower and A. Katzir  
 "Infrared fiber evanescent wave spectroscopy for in-situ monitoring of the  
 chemical processes in adhesive curing"  
*Surface and Interface Analysis*, 15, 473-478, (1990).
58. M. Angelovici, H. Dodiuk and S. Kenig  
 "Toughened acrylics short cure aids in underwater bonding"  
*Adhesive Age*, March 1990.
59. M. Angelovici, H. Dodiuk and S. Kenig  
 "Effect of surface preparation on performance of acrylic adhesive joints. Part 2"  
*Int. J. Adhesion and Adhesives*, 11, 143-491, (1991).
60. H. Dodiuk, N. Fin, A.E. Yaniv and S. Kenig  
 "Interfacial characterization of epoxy-bonded maraging steel"  
*J. Adhesion*, 31, 191-202, 1990.
61. E. Wurzburg, A. Buchman, E. Zylberstein, Y. Holdengraber and H. Dodiuk  
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The Fourth Israel Materials Engineering Conference, December 7-8, 1988, Beer Sheva, Israel.
31. H. Dodiuk  
"Adhesion - Theory and Practice in the Metallurgical Society Conference"  
30th April, 1989, Shfaym, Israel.
32. A. Kalehora, S. Sali, Z. Hamish and H. Dodiuk  
"Plasma treatments for improved adhesion"  
The 19th Conference of the Israel Society for Polymer and Plastics, 28th December, 1989, Haifa, Israel.
33. A. Buchman, N. Barak, I. Holdengraber and H. Dodiuk  
"Aging of polyurethanes by thermo-gravimetric analysis compared to other methods"  
The Israeli Thermal Analysis Society Conference, 15th May, 1990, Tel Aviv University, Israel.

34. H. Dodiuk and S. Kenig  
 "Composition-properties-network microstructure. Relationships of rubber modified epoxy formulations"  
 Networks 90, May 21-25, 1990, Jerusalem, Israel
  
35. H. Dodiuk and A. Buchman  
 "Laser preadhesion surface treatment for polymeric adherends"  
 Adhesion 90, 10-12 September, 1990, The Plastic and Rubber Institute, Cambridge, U.K., pp. 52/1-52/6.
  
36. H. Dodiuk and S. Kenig  
 "Characterization of epoxy-steel interface"  
 International Conference on Adhesion and surface Analysis, 3-5 April, 1989, Loughborough, Leicestershire, U.K.
  
37. E. Wurzburg, A. Buchman, E. Zylberstein and H. Dodiuk  
 "Preadhesion laser surface treatment polyetherimide and polycarbonate substrates"  
 The Fifth Israeli Materials Engineering Conference, December 1990, Haifa, Israel.
  
38. H. Dodiuk (invited lecture)  
 "Room temperature curing epoxy and their elevated temperature properties"  
 Polymer 91, 1991, Polymer Materials, Preparation, Characterization and Properties.  
 International Symposium, Melbourne, Australia, 10-15 February, 1991.
  
39. H. Dodiuk and S. Kenig  
 "Epoxy adhesives for field repair of composite structures"  
 The 32nd Israeli Annual Conference on Astronautics and Aviation, February 18-20, Israel, 1991.
  
40. H. Dodiuk  
 "The role of interfaces in polymeric adhesive joints and composites"  
 31st December, 1991, Tel Aviv, Israel.
  
41. H. Dodiuk  
 "Room temperature curing epoxy for elevated temperature service"  
 Conference of the Israel Society of Plastics and Polymers, 6th June, 1991, Tel Aviv, Israel.
  
42. H. Dodiuk  
 "Chemistry, optical and mechanical properties of UV curable adhesives"  
 Conference of the Israel Society for Polymers and Plastics, June 1992, Tel Aviv, Israel.

43. H. Dodiuk and S. Kenig  
 “Durability of structural epoxy film adhesives”  
 6th International Symposium on Structural Adhesive Bonding, 4-7 May, 1992,  
 Morristown, New Jersey, US
  
44. H. Dodiuk and S. Kenig  
 “Epoxy adhesives for repair of aluminum and composites structures”  
 6th International Symposium on Structural Adhesive Bonding, 4-7 May, 1992,  
 Morristown, New Jersey, USA.
  
45. H. Dodiuk and S. Kenig  
 “Epoxy adhesives for repair of graphite/epoxy composites”  
 International Conference on Advanced Composites - 93, Australia, 1993.
  
46. H. Dodiuk and S. Kenig  
 “Elevated temperature composites containing low temperature curing epoxies”  
 In International Conference on Microphenomena in Advanced Composites,  
 June 28 to July 1, 1992, Herzlia, Israel.
  
47. Z. Ophir, A. Buchman and H. Dodiuk  
 “ABTN modifies epoxy systems for filament winding”  
 International Conference on Microphenomena in Advanced Composites,  
 June 28 to July 1, 1992, Herzlia, Israel, p. 16.
  
48. O. Breuer, H. Dodiuk and M.S. Silverstein  
 “Enhanced interfacial adhesion of epoxy to polyethylene fibers through surface  
 modification”  
 International Conference on Microphenomena in Advanced Composites,  
 June 28 - July 1, 1992, Herzlia, Israel.
  
49. E. Segal, H. Dodiuk and D. Bartal  
 “Bond strength measurements by UT”  
 Israel-Denmark Joint Prospects in Quality Engineering, 20th May, 1992,  
 Haifa, Israel.
  
50. M. Rotel, J. Zahavi, Z. Gendler, A. Rosen, A. Buchman and H. Dodiuk  
 “Excimer laser surface treatment of sealed anodized aluminum”  
 The Euro-Asian Interfinish Conference, 21-24 October, 1991, p. 4.0.2.
  
51. M. Rotel, Z. Gendler, J. Zahavi, A. Buchman and H. Dodiuk  
 “Laser surface treatment of anodiclayers on Al alloys”  
 Interfinish 92, 5-10 October, 1992, Brazil, p. 499.

52. H. Dodiuk, A. Buchman, M. Rotel and J. Zahavi  
 "Preadhesion surface laser treatment of composites, polymer and metal adherends"  
 Advanced Composites 93, International Conference on advanced Composites, Australia, 15-19 February 1993, (invited lecture), p. 3
53. M. Rotel. A. Buchman, J. Zahavi and H. Dodiuk  
 "Evaluation of preadhesion surface treatment for fiber reinforced PEEK"  
 Polymers for the 21st Century, Honolulu, Hawaii, May 16-21, 1993.
54. M. Engelovici and H. Dodiuk  
 "The effect of surface preparation on the performance of acrylic adhesive joints"  
 SAMPE Conference, Toronto, Canada, October 20-22, 1992, pp. T-577 to T-590
55. H. Dodiuk (invited chairman)  
 Gordon Research Conference on Science of Adhesion (1993), 15-20 August, New Hampshire, USA.
56. H. Dodiuk  
 "Composition - properties-network microstructure relationship of rubber modified epoxy formulations"  
 Invited lecture, The Society of Polymers and Plastics in Israel, 29th April, 1993.
57. A. Buchman, Y. Holdengraber and H. Dodiuk  
 "Tapered and parallel adhesive joints - numerical and experimental analysis"  
 ACS Conference, Chicago, August 1993, USA.
58. H. Dodiuk and S. Kenig  
 "Properties/microstructure of low temperature curing toughened epoxy compositions"  
 PAT (Polymers for Advanced Technologies) Conference, 1993, 7-11 September, University of Oxford, U.K.
59. A. Buchman, H. Dodiuk, M. Rotal and J. Zahavi  
 "Laser induced adhesion strength of polymers composite and metal alloys"  
 International Symposium on Polymer Surface Modification Relevance to Adhesion, Las Vegas, Nevada, November 3-5, 1993.
60. A. Buchman, H. Dodiuk and Z. Ophir  
 "Epoxy compositions for filament wound pressure vessels"  
 Invited lecture, Seminar on the subject of Composites, organized by the Israeli Society for Plastics and Polymers, 14th October, 1993.
61. A. Vaxman, M. Narkis, A. Zigman, H. Dodiuk and B. Tratner  
 "Environmental resistance of reinforced PEEK"  
 Lecture for Seminar on the subject of Composites organized by the Israeli Society for Plastics and Polymers, 14th October, 1993.

62. H. Dodiuk and A. Buchman  
 "Aircraft battle damage repair workshop"  
 Dayton, Ohio, USA, 27-30 June, 1994. Composite and metallic repair  
 by low temperature curing epoxy adhesives and laser preadhesion surface  
 treatments (invited lecture).
63. I. Eppelbaum, H. Dodiuk, S. Kenig, B. Zalsman and A. Valdman  
 "Advanced multipurpose dental adhesive system"  
 Gordon Conference on Science of Adhesion, 7-12 August, 1994,  
 New Hampshire, USA.
64. M. Rotel, J. Zahavi, A. Buchman and H. Dodiuk  
 "Preadhesion laser surface treatment of carbon fiber reinforced composite PEEK"  
 The 6th Israeli Conference on Surface and Colloid Science, 5-6 October,  
 Zichron Yaacov, Israel, 1994, p. 49.
65. H. Dodiuk (invited lecture)  
 "The concurrent research and engineering for joint venture with universities"  
 Mediterranean Network Conference, 4-11 November, 1994, Naples, Italy.
66. H. Dodiuk (invited lecture)  
 "UV treatment of surfaces with excimer lasers"  
 ICAST 95 (International Conference on Adhesion Science and Technology),  
 16-20 October, 1995, Amsterdam, Holland, pp. 705-711.
67. H. Dodiuk, A. Buchman, M. Rotel and J. Zahavi (invited lecture)  
 "Preadhesion laser surface treatment of carbon fiber reinforced PEEK composite"  
 SPE Conference Proceedings, Antec '95, Boston, 7-11 May, 1995, Vol. II,  
 pp. 2532-2538.
68. H. Dodiuk (invited lecture)  
 "Preadhesion treatment by laser irradiation of polymeric, metallic and composite  
 substrate".  
 Polymers and Plastic Society with the Israeli Section of SPE, 23rd Annual Conference ,  
 14th December, 1994, Tel Aviv, Israel  
 14th December, 1994, Tel Aviv, Israel.
69. B. Zalsman, H. Dodiuk, I. Eppelbaum and A. Valdman  
 "High Q-bond plus, new fourth generation multipurpose bonding cementing and  
 covering system"  
*J. Dental Res.*, 72, 775, Abs. N45, (1993).



70. B. Zalsman, H. Dodiuk, I. Eppelbaum and A. Valdman  
 "High Q-bond plus, new fourth generation multipurpose bonding cementing and covering system."  
 Dental Innovations 95, April 11-13, 1995, Tel Aviv University, Isr
71. R. Pilo, T. Brosh and H. Dodiuk  
 "The influence of long term water storage on the durability of the shear bond strength of new adhesive systems to fresh amalgam"  
 Dental Innovations 95, April 11-13, 1995, Tel Aviv University, Israel.
72. I. Gilath, A. Buchman and H. Dodiuk  
 "Space grade adhesive behavior of hypervelocity impacts"  
 ICCE/2, Second International Conference on Composites Engineering, New Orleans, August 21-24, 1995.
73. A. Buchman, H. Dodiuk, M. Rotel and J. Zahavi  
 "Pre-adhesion surface treatment of composites using excimer laser"  
 The Adhesion Society 19th Annual Meeting, February 18-21, 1996.
74. H. Dodiuk, A. Buchman, M. Rotel and J. Zahavi (invited lecture)  
 "UV treatment of surfaces with excimer laser and UV lamps"  
 EURADH '96 (Adhesion '96), September 6-9, 1996, Cambridge, UK, p. 705.
75. M. Rotel, J. Zahavi, A. Buchman and H. Dodiuk  
 "Surface modification of laser treatment of composite adherend"  
 The First Meeting of the Israeli Materials Society, 30-29 April, 1996.
76. D. Sagi, M. Markis, A. Siegmann, R. Joseph and H. Dodiuk  
 "Composite materials for marine applications based on vinyl ester resins"  
 The Israeli Polymer and Plastic Society, 19 December, 1995, T-A, Israel.
77. A. Buchman, A. Sidass and H. Dodiuk (invited lecture)  
 "Fatigue of adhesives bonded thermoplastics"  
 Antec 96, 5-9 May, 1996, Indianapolis, USA, pp. 1231-1235.
78. I. Eppelbaum, H. Dodiuk, B. Zalsman and A. Valdman  
 "Advanced multipurpose dental adhesive system"  
 International Conference on Environmental Impact of Polymeric Materials, 12-16 May, 1996, Israel (23rd Aharon Katzir Conference), p. 47.
79. H. Dodiuk, I. Eppelbaum, B. Zalsman and A. Valdman  
 "Advanced multipurpose dental adhesive system"  
 "Science of Adhesion" Gordon Conference, Tilton School, N.H., 4-7 August, 1996, USA.

80. A. Buchman, H. Dodiuk, M. Rotel and J. Zahavi  
 "Modification of Surfaces by Excimer Laser Treatment"  
 Proceedings of the 20th Annual "Anniversary" Meeting of the  
 Adhesion Society, Hilton Head Island, South Carolina, 23-26 February, 1997.  
 ISSN: 1086-9506, pp. 509-511.
81. H. Dodiuk and A. Buchman (invited paper)  
 "Adhesives for biomedical applications"  
 Contribution in the memory of Professor Katz, *ibid*, pp. 405-408.
82. H. Dodiuk and A. Buchman (invited paper)  
 "Laser induced reaction for prebond surface treatment of polymer and  
 composites,  
 pp. IVI2a-2b" "PAT" Polymers for Advanced Technology 97, August 31 to  
 September 4, 1997, Leipzig, Germany.
83. I. Eppelbaum, H. Dodiuk, B. Zalsman and A. Valdman  
 "New hybrid restorative dental materials"  
 15th European Chemistry of Interfaces Conference (ECIC), pp. 116,  
 October 18-22, 1998, Jerusalem, Israel.
84. A. Buchman, C. Kalil, H. Dodiuk and M. Rotel  
 "Microstructure characterization of Laser Treated Surfaces"  
 EurAdh. 98, WCARP-1, 1st World Congress on Adhesion and Related Phenomena,  
 September 6-11, 1998, pp. 77-80, Garmisch-Partenkirchen, Germany.
85. A. Buchman, H. Birnholtz, I. Liran and H. Dodiuk-Kenig.  
 "Microwave curing of polyurethane adhesives. Adhesion 99, 15-17 September  
 1999, pp. 319, Cambridge, UK.
86. A. Buchman and H. Dodiuk-Kenig  
 "Microwave curing of polyurethane "  
 The Israeli Materials Engineering Conference (IMEC-9) and the Israeli  
 Polymers and Plastics Society, December 7, 1999, Haifa - Israel.
87. M. Rotel, S. Tamir, A. Buchman, H. Dodiuk-Kenig  
 "Prebonding Technology Based on Excimer Laser Surface Treatment"  
 The European Materials Conf. (E-MRS), June 1-4, 1999, Strasburg, France.
88. A. Buchman, H. Dodiuk-Kenig, M. Rotel, I. Reich  
 "Proc. 23rd Annual meeting of the Adhesion Society"  
 Feb. 20-23, 2000 Myrtle Beach SC., p 447, U.S.A.
89. I. Eppelbaum, B. Zalsman, H. Dodiuk, A. Valdman  
 "New Hybrid Restorative Dental Materials"  
 Proceeding of "Dental Implants Treatments"  
 October 26-28, 2000, New-Orleans USA, 14 76 (2000).

90. H. Dodiuk (invited)  
 "Trend in Materials Development"  
 November 8, 2000, Agil 2000, Jerusalem, Israel.
91. L. Moshinsky, S. Kenig, H. Dodiuk, A. Buchman  
 "Hyperbranched polyamidoamines-Epoxy Adhesives and Primers"  
 The 24<sup>th</sup> Annual meeting of the Adhesion Society, February 25-28, 2001,  
 Williamsburg, VA. US
92. H. Dodiuk (invited)  
 "Tailoring New Dendritic Architecture for Thermoset Adhesives"  
 PAT 2001, September 2-6, 2001, Eilat, Israel.
93. I. Lir, M. Haber, H. Dodiuk, P. Azhari  
 "Tissue Bioadhesives based on Algal Extract"  
 PAT 2001, September 2-6, 2001, Eilat, Israel.
94. I. Lir, M. Haber, H. Dodiuk, R. Azhari. Algal biopolymers: properties and  
 applications. The 30<sup>th</sup> Annual Conference of Israel Polymer and Plastic  
 Society, 2001, Tel-Aviv, Israel.
95. I. Lir, M. Haber, H. Dodiuk, R. Azhari. Algal biopolymers for biomedical  
 applications. Marine Biotechnology Conference, 2001, Haifa, Israel.
96. K. Lizenboim, I. Eppelbaum, H. Dodiuk, B. Zalsman, S. Kenig  
 "Novel Dental Composites based on Hyperbranched and Dendritic Polymers"  
 25<sup>th</sup> Adh. Soc. Meeting and WCARP-II, February 10-14, 2002, Orlando, USA  
 Chairperson invited.
97. H. Dodiuk, S. Kenig and L. Moshinsky  
 "Novel Highly Branched Crosslinking Agents for Adhesives"  
 25<sup>th</sup>. Adh. Soc. Meeting and WCAR P-II, February 10-14, 2002, Orlando, USA.
98. H. Dodiuk (invited)  
 "Advanced Applications of Hyperbranched Polymers in Thermoset systems"  
 31<sup>th</sup> meeting of the Israeli Polymers and Plastics Society, December 16<sup>th</sup>, 2002,  
 Rehovot, Israel.
99. I. Lir, M. Haber, O. Sugi, R. Azhari, H. Dodiuk  
 "Development of skin surface model as an adherent for adhesion to skin testing."  
 31<sup>th</sup>. Meeting of the Israeli Polymers and Plastics Society, December 16<sup>th</sup>., 2002,  
 Rehovot, Israel.
100. K. Lizenboim, H. Dodiuk, B. Zalsman.  
 "Evaluation of Hyperbranched Polymers Effect On Dental Composite Properties."  
 June 2003 Goteborg, Sweden., J. Dental Research, Volume. 82, Issue B.

101. M. Haber, I. Lir, R. Azhari, H. Dodiuk and S. Skualson,  
 “Drug Delivery Applications of Algal Bioadhesives,”  
 The 32<sup>nd</sup> meeting of the Israel Polymers and Plastics Society, 12/1/04, Haifa, Israel
  
102. I. Eppelbaum, H. Dodiuk,  
 “Sel Etching Primers for Dental Application”
  
103. Haber, I. Lir, H. Dodiuk-Kenig and R. Azhari,  
 “Algal Bioadhesives: Applications of Nature’s Underwater Adhesives,  
 BMMD 2003 and The 11<sup>th</sup> Israel Materials Engineering Conference, Haifa,  
 December 24-25, 2003, Israel
  
104. H. Dodiuk-Kenig, A. Buchman, T. Brand, S. Kenig  
 “Novel Adhesion Promoters Based On Hyper-Branched Polymers”  
 The 11<sup>th</sup> Israel Materials Engineering Conference, Haifa, December 24-25, 2003,  
 Israel. pp.111
  
105. H. Dodiuk-Kenig, S. Kenig, A. Buchman  
 “Nano Tailoring Of Structural Adhesives”  
 The Adhesion Society Meeting, Wilmington, N. Carolina, USA, February 2004,  
 Proceedings, pp. 522-524
  
106. A. Dotan, A. Ophir, O. Shapelev, H. Dodiuk and S. Kenig, “ Nano Tailoring of Epoxy  
 Adhesives By Functionalized Nanoclays,  
 PPS-20 Proceedings, pp. Akron, Ohio, 20/6/04, USA
  
107. H. Dodiuk-Kenig, A. Buchman, T. Brand, R. Joseph and S. Kenig  
 “Novel Adhesion Promoters Based on Hyper-Branched Polymers”  
 7<sup>th</sup> European Adhesion Conference –EURADH –2004, September 5-9 2004  
 Freiburg, Germany pp: 42-47
  
108. H. Dodiuk-Kenig, S. Kenig, I. Belinsky, A. Dotan and A. Buchman,  
 “Nano Tailoring of Elevated Temperature Cured Epoxy Adhesives By Grafted  
 Caged Silica (POSS)”.  
 The Adhesion Society meeting, (13-16 February) 2005, Alabama, USA.

109. H. Dodiuk-Kenig ,Y. Maoz, K.Lizenboim, I. Eppelbaum B. Zalsman and S. Kenig  
 “The Effect of Grafted Caged Silica(POSS) on the properties of Dental Composites and Adhesives”  
 The Adhesion Society Meeting, (13-16 February) 2005, Albama, USA
110. H. Dodiuk –Kenig  
 “ Novel Dental Composites &Adhesives based on Nanotechnology”  
 Keynote Lecture in the 83<sup>rd</sup> IADR,34<sup>th</sup> Annual Meeting of AADR, 29<sup>th</sup> Annual Meeting of the CADR, Baltimore, 9-12 march,2004 ,US
111. A, Buchman, H. Dodiuk, R. Joseph and S. Kenig  
 “Nano Composites of Epoxy Adhesive Filled with Clay, Nanotubes and Fullerenes,  
 The Adhesion Society Meeting, (13-16 February) 2005, Albama, USA.
112. A. Dotan, H. Dodiuk , I. Belinski and S. Kenig  
 Israeli Polymer and Plastics meeting, 14/12/05, TA, Israel.
113. P.F Rio, H. Dodiuk,S.Kenig, S.McCarthy and A.Dotan “The Effect of Nanostructured and Composition on the Hydrophobic Properties of Solid Surfaces” The 3<sup>rd</sup> World Congress on Adhesion and related Phenomena ,Oct. 15-18 2006, Beijing, China ( Invited and chairman )
114. T. Efrat, H. Dodiuk, S. Kenig, and S. McCarthy “Nano Tailoring of Polyurethane Adhesive By Polyhedral Oligomeric Silsesquioxane (POSS)” The 26<sup>th</sup> Meeting of the Adhesion Society, 19/12/2006, Florida, USA.(pp-187 in the proceeding)
115. H. Dodiuk , “Application of Nanotechnology for Advanced Dental Adhesives and Composites” Israel Polymers &Plastics Society Meeting, 5/12/05, Herzelia, Israel
116. H. Dodiuk ans S. Kenig “ Nano Ffillers For Enhancement of Mechanical and Thermal Performance of Adhesives” The 2<sup>nd</sup> International Conference on Fillers for Polymers, 21-22 March 2006, Cologne ,Germany( paper in the proceeding)
117. H. Dodiuk –Kenig  
 “Nanotailoring of Dental Formulations by Dendrimers, Nanoparticles and Nanofibers” The 84th IADR,1<sup>st</sup> Meeting of the Pan-Asian-Pacific Federation, Brisbane, June 28-July 1 2006,Australia.
118. B. Zalsman, A. Valdman, K. Lizenboim, I. Suvorov, A.Suvorov, W.A. Mchal and H. Dodiuk-Kenig,” Dual Cure Core Compatibility to DBA using Self-Cure and Self-Etching Activators”  
 The 84th IADR,1<sup>st</sup> Meeting of the Pan-Asian-Pacific Federation, Brisbane, June 28-July 1 2006,Australia.

119. H. Dodiuk "Interdisciplinary Aspects in Adhesion Technology and Nanotechnology " The 3<sup>rd</sup> World Congress on Adhesion and related Phenomena ,Oct. 15-18 2006, Beijing, China ( Invited and chairman)
120. F. Rios ,H. Dodiuk ,A. Dotan and S. Kenig  
"Transparent Self cleaning surfaces"  
The Israel Polymers &Plastics Society 35<sup>th</sup> Meeting , 11.11.06, herzelia, Israel
121. H. Dodiuk, I. Belinski, A. Dotan and S. Kenig  
"Polyurethane Adhesive Containing Functionalized Nanoclays"  
The 30<sup>th</sup> Annual Adhesion Society Meeting ,February 18-21 ,2007 Tampa, Florida, USA .pp. 349-351.
122. H. Dodiuk, "Nano and Micro Morphology Development For Ultrahydrophobic Polymer Surface" PPS-23 ,ThePolymer Processing Society 23<sup>rd</sup> Annual Salvador,Brazil- May 27-31,2007
123. H. Dodiuk and S. Kenig,  
"The Use off Nano Particles for Hydrophobic and Self Cleaning Coatings "  
Nanopolymer 2007, RAPRA Conferences, 12-13th June 2007, Berlin, Germany.
124. Y.Shaked, H.Dodiuk, S. McCarthy , S.Kenig and C. Schwier,  
" Butyrate (PHB) In Melt Extrusion, Part 1: Poly-Oligomeric-Thermal Stabilization Of Biodegradable Poly-Hydroxy-Silsesquioxane (Poss)", Antec, 2008, New Orleans, USA.
125. H. Dodiuk, S. Kenig, F. Rios and A. Dotan, "Bio-inspired ultrahydrophobic and Self Cleaning Coatings, "Hybrid Materials 2009, 15-19 March. Tours, France
126. H. Dodiuk, S. Kenig . "Nano Enhanced Toughness of Epoxy Adhesives"  
Adhesion, Science of, July 26-31,2009, Colby Sawyer College, New London, NH, USA
127. F. Rios ,H. Dodiuk ,A. Dotan and S. Kenig ,"Super Hydrophobic and Self Cleaning Coatings " The European Coating Conference  
December 8-9, 2009, Berlin, Germany
128. H.Dodiuk, A.Dotan and S.Kenig "The Relationship Between Water Wetting and Ice Adhesion-Surface Nanostructuring for Ice Repellency  
PAT 2009,Jerusalem, Israel, 11-14, October 2009
129. Y.Shaked, H.Dodiuk and S. Kenig, "Thermal Stabilization ,Enhanced Processability of Bipdegradable Polymers,"  
PAT 2009,Jerusalem, Israel, 11-14, October 2009

130. N. Even, L.A.Abramovich, V. Fourman, R. Eliasy, H.Dodiuk and E. Gazit,  
"Fabrication of Nano-Composites Reinforced by Diphenylalanine Peptide  
Nanotubes"  
IMEC- The 14th Israel Materials Engineering Conference  
December 13-14, 2009 Tel-Aviv, Israel.
131. Mark Shneider, Hanna Dodiuk, Shmuel Kenig and Reshef Tenne  
"The Effect of Modified Tungsten Sulfide Fullerene-Like Nanoparticles on the  
Toughness  
Of Epoxy Resins".  
PAT 2009,Polymers for Advanced Technologies,Israel,2009
132. Mark Shneider, Hanna Dodiuk, Shmuel Kenig and Reshef Tenne  
"The Effect of Modified Tungsten Sulfide Fullerene-Like Nanoparticles on the  
Toughness  
Of Epoxy Resins".  
The 28<sup>th</sup> IVS Annual Conference and Technical Workshop ,Israel' 2009.
133. Y.Shaked, H.Dodiuk and S. Kenig -"Thermal Stabilization ,Enhanced Processability  
of Bipdegradable Polymers," PPS(POLYMER PROCESSING SOCIETY)  
Conference, Banff ,Canada, 4-8 July 2010
134. H.Dodiuk-invited paper  
"The effect of nanostructure and composition of solid surfaces on ice adhesion"  
ACS Symposium in honour of Dr Kash Mittal at '240th ACS National Meeting, Boston, USA, 22-  
27/8, 2010
135. H.Dodiuk,S.Kenig-"Toughening of adhesives by Nanoparticles"  
WCARP-4 , 26-30/10/2010, Arcachon, France
136. Mark Shneider, Hanna Dodiuk, Shmuel Kenig and Reshef Tenne  
"The Effect of Modified Tungsten Disulfide Fullerene-Like on the Toughness of Epoxy  
Resins".  
The Israel Polymers &Plastics Society 39<sup>th</sup> Meeting ,Israel 2010
137. Mark Shneider, Hanna Dodiuk, Shmuel Kenig and Reshef Tenne  
"The Effect of Modified Tungsten Disulfide Fullerene-Like on the Toughness of Epoxy  
Resin"  
NanoIsrael, Israel,2010
138. H, Dodiuk "Nanocomposite Adhesives Based on Peptide Nanotubes "  
The 6<sup>th</sup> international conference "Nanotechnology for the Plastics & Rubber  
Industries", February 7<sup>th</sup> ,2011 ,Shenkar College ,Israel.
139. H. Dodiuk and S. Kenig "Nano Enhanced Reactive Polymers"  
PPS-27, Marrakesh ,Morocco, 9-14 May, 2011

140. Eliad Cohen, Ordit Binshtok, Ana Dotan, Hanna Dodiuk  
"Biobased pressure-sensitive adhesives/Gluten based PSA"  
ANTEC 2011, Boston, USA, May 1-5, 2011
141. H.Dodiuk, K.Lizenboim, N.Iuster, B.Zalsman."Bisphenol-A Free Alternative for Dental Polymer Composites".  
EUROTEC™ 2011 Barcelona Spain 14-15 October 2011
142. Mark Shneider, Hanna Dodiuk, Shmuel Kenig and Reshef Tenne.  
"The Effect of Fullerene-like Tungsten Disulfide and Carbon Nanotubes on The Mechanical Properties of Epoxy Adhesives"  
Nanocomposites, Paris, 2011.
143. Mark Shneider, Hanna Dodiuk, Shmuel Kenig and Reshef Tenne.  
"The Effect of Fullerene-like Tungsten Disulfide and Carbon Nanotubes on The Mechanical Properties of Epoxy Adhesives"  
The Israel Polymers &Plastics Society 40<sup>th</sup> Meeting, Israel 2011
144. H.Dodiuk, K.Lizenboim, N.Iuster, B.Zalsman  
."Bisphenol-A Free Alternative for Dental Polymer Composites".  
The Israel Polymers &Plastics Society 40<sup>th</sup> Meeting, Israel 2011
145. H.Dodiuk, K.Lizenboim, N.Iuster, B.Zalsman  
"Bisphenol-A Free Alternative for Dental Polymer Composites".  
The Israeli chemistry society meeting, februar, tel aviv, 2012
146. Mark Shneider, Hanna Dodiuk, Shmuel Kenig and Reshef Tenne.  
"The Effect of Fullerene-like Tungsten Disulfide and Carbon Nanotubes on The Mechanical Properties of Epoxy Adhesives"  
The Israeli chemistry society meeting, februar, tel aviv, 2012
147. Alla Zak, Mark Schneider, Alexei Moshkovich, Hanna Dodiuk, Samuel Kenig, Reshef Tenne, Lev Rapoport  
"Influence of Inorganic WS<sub>2</sub> Nanoparticles on the Tribological Properties of Epoxy Resin"  
Nanoisrael 2012, March 2012 Tel aviv. Israel
148. Hanna Dodiuk, Shmuel Kenig  
Nanoenhanced nodule morphology and Properties of Epoxy adhesives  
NANO2012, Rhodes, Greece, 16-22 August 2012.



149. H.Dodiuk , K.Lizenboim , B.Zalsman  
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