

III. SEMINARS & PRESENTATIONS / Vorträge und Konferenzbeiträge

- 29.1.97 Material Science Centre, Univ. Groningen (NL)
Invited lecture (Sariciftci): A Molecular Approach to Photovoltaic Cells using the Photoinduced Electron Transfer from Conjugated Polymers onto Buckminsterfullerene
- 1.3.-8.3.97 XIth Int. Winterschool on "Electronic Properties of Novel Materials" Molecular Nanostructures, Kirchberg/Tirol (A)
Poster: The Optoelectronic Properties of Fullerene - Conjugated Polymer-Conventional Polymer Guest-Host Systems
C.J.Brabec, N.S.Sariciftci, H.Neugebauer W. Graupner, G. Leising, F. Wudl, A.J. Heeger
- 9.3. - 15.3.97 9th Europ. Symposium on Quantum Solar Energy Conversion, Rauris (A)
Invited lecture (Sariciftci):Photoinduced Electron Transfer from Conjugated Polymers onto Buckminsterfullerene: A Molecular Approach to "Plastic Solar Cells"
- 2.4. - 4.4.97 2. Österreichische Polymertage, Rohrmoos i. Ennstal (A)
Poster: Spectroelectrochemical Studies on Poly(para-phenylene sulfide)
S. Srinivasan, H. Raberger, H. Neugebauer, C. Brabec and N.S. Sariciftci
Talk (Brabec):The Role of Fullerenes in Conjugated Polymer - Conventional Polymer Blends : Verification of Optoelectronic Properties
C.J.Brabec, N.S. Sariciftci, H. Neugebauer, W. Graupner, G. Leising
Poster: Investigation of the Linear Flow Regime of Technical Polymers by Numerical Conversion of MVM Creep Measurements
M. Ringhofer, C.J.Brabec, R. Sobczak
Poster: Fourier-Transformation in der Rheologie: Konversion von Materialfunktionen
Th.Goeritz, C.J.Brabec, A.Schausberger
- 3.4. - 4.4.97 Workshop Elektroanalytische Meßmethoden, Grundlagen und Anwendung, Wien (A)
Invited lecture (Neugebauer): Potentiometrie, pH-Messung.

ionenselektive Elektroden

- 7.4. - 9.4.97 Bayreuth Polymer & Materials Research Symposium 1997, Bayreuth (D)
Invited lecture (Sariciftci): *Conjugated Polymer/Fullerene Composites: A Molecular Route to "Plastic Solar Cells"*
- 15.5.97 5th Alpe-Adria Rheoworkshop 1997, Novo Mesto, Slovenia
Poster: *Investigation of the linear flow of technical polymers by numerical conversion of MVM creep measurements*
C.J.Brabec, M. Ringhofer M., H. Marhold, R. Sobczak
- 14.5.97 Heliopolis Solar Energy Meeting, Linz (A)
Invited lecture (Sariciftci): *Organische Dünnschichten - eine neue Generation von Solarzellen?*
- 28.7. - 1.8.97 International Symposium on Optoelectronics of SPIE, Fullerenes in Photonics III, San Diego, California (USA)
Invited lecture (Sariciftci): *Macroscopic ordering and characterization of conjugated polymer/fullerene photovoltaic composites in host-guest systems*
Poster: *Electrochemically and Photoinduced Infrared Bands in PPV: A Comparative Study*
H.Neugebauer, S. Srinivasan, C. Brabec, N.S. Sariciftci, S. Tasch and G. Leising
Poster: *Photoexcitations of Conjugated Polymer - Fullerene - Composites in Conventional Polymeric Host Matrices*
C. Brabec, V. Dyakonov, H.Neugebauer, M. Scharber, N.S. Sariciftci, W. Graupner and G. Leising
- 2.8. - 7.8.97 International Conference on Chemistry and Physics in Matrices, Spital am Pyhrn (A)
Invited keynote lecture (Sariciftci): *Matrix Effects on the Photophysics of Conjugated Oligomers/Polymers in Composite with C₆₀*
- 8.10.-
11.10.97 Seminar "Science and technology of electroactive organic materials",
Obdach (A)
Invited talk (Neugebauer): *Electrochemically - and photo-induced IRAV bands in conjugated polymers*
Invited talk (Brabec): *Composites of conjugated polymers / fullerenes / conventional polymers: application to plastic*

solar cells

Invited talk (Dyakonov): Recombination processes in conjugated polymers studied by means of optically and electrically detected magnetic resonance

Further participators: Sariciftci, Matt, Kvarnström, Johansson, Scharber, Menon

- 28.10.97 TU Eindhoven, Department of Organic Chemistry (NL)
Invited lecture and demonstrations (Sariciftci): Plastic Solar Cells
- 29.10.97 Central Research Facilities of Philips Corporation, Eindhoven (NL)
Invited lecture (Sariciftci): Plastic Solar Cells
- 6.11. - 7.11.97 Bruker FTIR Benutzertreffen 1997, Karlsruhe (D)
Talk (Neugebauer): Spektro-Elektrochemie und photoinduzierte Absorptionsspektroskopie konjugierter Polymere
- 8.12. - 10.12.97 Hahn Meitner Institut, Berlin (D)
Invited lecture (Sariciftci): Photophysics of Plastic Solar Cells
- 12.12.97 Wissenschaftl. Tätigkeitsbericht Christian-Doppler-Gesellschaft Wien (A), (Sariciftci)
- 26.1. - 30.1.98 Dipartimento di Chimica e Chimica Industriale, Università degli Studi di Genova (I)
Invited Talk (Brabec): Photoexcitation Studies on Composites of Conjugated Polymers and Fullerenes in Conventional Polymers
- 8.3. - 15.3.98 APS Annual Meeting Los Angeles (USA)
Talk (Brabec): Realization of Large Area, Flexible Plastic Solar Cells using Conjugated Polymer / Fullerene Composites
C.J.Brabec, F. Padinger, N. S. Sariciftci
- 28.2. - 7.3.98 XIth Int. Winterschool on "Electronic Properties of Novel Materials" Molecular Nanostructures, Kirchberg/Tirol (A)

Poster: *In Situ ATR-FTIR Spectroscopic Investigations During Electrochemical Reduction of Fullerene Thin Films*

H.Neugebauer, C. Kvarnström, N.S. Sariciftci

Poster: *Optical properties of pristine and Ba-doped C₆₀ films grown by hot wall epitaxy*

H.Sitter, M.T.Nguyen, K. Hingerl, M. Schmid, H.Neugebauer

Poster: *Realization of large area flexible fullerene - conjugated polymer photocells: a route to Plastic solar cells*

C. Brabec, F. Padinger, V.Dyakonov, J.C. Hummelen, R.A.J. Janssen, N.S.Sariciftci

Poster: *Studies of photoinduced charge transfer in conjugated polymer-fullerene composites by light-induced ESR*

G. Zorinians, M. Scharber, C. Brabec, R.A. Janssen, J.C. Hummelen, N.S.Sariciftci, V. Dyakonov

Further participators: H. Johansson, G. Matt

8.3. - 14.3.98 10. European Symposium on Quantum Solar Energy Conversion 98, QUANTSOL 98, Bad Hofgastein (A)

Invited lecture (Sariciftci):*Realization of Plastic solar Cells based on Conjugated Polymer / Fullerene Composites*

5.6. - 6.6.98 Oberseminar "Nutzung solarer Energie und verwandte Fragen", Ludwig Maximilians-Universität München (D)

Invited lecture (Sariciftci):*Plastiksolarzellen*

12.7. - 18.7.98 International Conference on Science and Technology of Synthetic Metals, Montpellier (F)

Poster: *Investigations of Fullerene Thin Films with In Situ FTIR Spectroelectrochemistry*

C. Kvarnström, H.Neugebauer, N.S. Sariciftci

Poster: *Photoinduced FT-IR Spectroscopy of Conjugated Polymer/Fullerene Composite Films*

H. Johansson, C.J. Brabec, H.Neugebauer, J.C. Hummelen, R.A.J. Janssen, N.S. Sariciftci

Poster: *In Situ FTIR Spectroelectrochemical Characterization of Poly(3,4-ethylenedioxythiophene) Films*

C. Kvarnström, H.Neugebauer, S. Blomquist, H.J. Ahonen, J. Kankare, A. Ivaska, N.S. Sariciftci

Poster: *Stability Studies and Degradation Analysis of Plastic Solar Cell Materials by FTIR Spectroscopy*

H.Neugebauer, C.J. Brabec, J.C. Hummelen, R.A.J. Janssen, N.S. Sariciftci

Poster: *CW-Photocurrent Measurements of Conjugated Polymers and Fullerene Blends in a Conventional Polymer*

Matrix

F. Padinger, C. Brabec, J.C. Hummelen, R.A.J. Janssen,
N.S.Sariciftci

Talk (Brabec):Realization of Large Area Flexible Plastic
Solar Cells Based on Conjugated Polymers and Fullerenes

C.J. Brabec, F. Padinger, J.C. Hummelen, R. Janssen,
N.S.Sariciftci

Poster: Photoexcitations in Carzoly Substituted
Polydiacetylene (PDA) Fullerene Composites

C. Brabec, M.Scharber, H. Johansson, D. Comoretto,
G.Dellepiane, I.Moggio, A.Cravino, J.C. Hummelen,
N.S.Sariciftci

Poster: Time Resolved Electron Spin Resonance Studies on
Photo-Induced Electron-Transfer in Donor Acceptor
Assemblies

M.C. Scharber, C.J. Brabec, V. Dyakonov, N.S.Sariciftci

Poster : Light-Induced ESR Studies in Conjugated Polymer-
Fullerene Composites

G.Zorinyants, V. Dyakonov, M.Scharber, C.Brabec,
R.A.J.Janssen, J.C.Hummelen, N.S.Sariciftci

Poster: Fullerene-Oligophenyl Multilayers Grown by Hot
Wall Epitaxy

G.Matt, N.M. Tuan, C.J. Brabec, H. Sitter, N.S.Sariciftci

Poster: Matrix isolation spectroscopy of C70 - vibrational
analysis and assignment of the lowest excited states

G.Zerza

Further participators: D. Gebeyehu, E. Ehrenfreund

18.7. -
16.8.98

University of Vienna International Summer Program, Strobl
(A)
(D. Gebeyehu)

16.8. -
22.8.98

Europ. Summerschool on Quantum Solar Energy Conversion,
Hirschegg (A)

Invited talk (Sariciftci):Organic and Molecular
Semiconductors for Photovoltaics

Invited talk (Sariciftci):Optical spectroscopy of primary
photophysical processes, intermolecular interactions in
organic films

Invited talk (Sariciftci):Photophysics and Photovoltaic
Applications of Conjugated Polymers

Further participators: D. Gebeyehu, M. Scharber, H.
Johansson, A. Cravino, G. Zerza, T. Fromherz,

- 8.8. - 12.8. 98 12th International Conference on Photochemical Conversion and Storage of Solar Energy — IPS 12, Berlin (D)
Poster: Large Area Flexible Fullerene — Conjugated Polymer Photocells: A Route to Plastic Solar Cells
C. J. Brabec, F. Padinger, N. S. Sariciftci
- 9.9. - 12.9. 98 Gleisdorf Solar 1998
Invited Talk (Brabec): Organische Materialien in der Photovoltaik: Die Plastiksolarzelle
C.J.Brabec, N.S.Sariciftci
- 10.9. - 12.9.98 COST 518 Meeting on Molecular Materials and Functional Polymers for Advanced Devices, Varenna (I)
Talk (Brabec): Large Area Flexible Photovoltaic Cells from Conjugated Polymer — Fullerene Blends
C. J. Brabec, F. Padinger, N. S. Sariciftci
- 13.9. - 17.9.98 Europhysics Conference on Macromolecular Physics, Electrooptical Properties of Polymers and Related Phenomena, Varenna (I)
Poster: Characterization of Para-hexaphenyl/C60 Bilayers Grown by Hot Wall Epitaxy
G. Matt, C.J. Brabec, H. Neugebauer, H. Sitter and N.S. Sariciftci
Poster: In Situ ATR Investigation of Degradation Mechanisms of Conjugated Polymer/Fullerene Devices
H. Neugebauer, C.J. Brabec, J.C. Hummelen, R.A.J. Janssen, N.S. Sariciftci
- 20.10. - 24.10.98 Int. Symposium "Conjugated Polymers, Oligomers, and Dendrimers: from Polyacetylene to DNA" , Fondation Universitaire, Brüssel (B)
N.S. Sariciftci (participated)
- 16.11.98 Limburg University, Diepenbeek (B)
Invited Talk (Brabec): The use of Conjugated Polymer/Fullerene Blends in Photovoltaic Devices
- 17.11.98 Fa. Agfa, Antwerpen (B)
Invited Talk (Brabec): The use of Conjugated Polymer/Fullerene Blends in Photovoltaic Devices

- 19.11.98 Holst Symposium, TU Eindhoven (NL)
Participators: C. Brabec, T. Fromherz, F. Padinger
- 1.12. -
6.12.98 European Conference on Organic Solar Cells 98, Cadarache
(F)
Invited Talk (Sariciftci): *Conjugated Polymer Based
Photovoltaic Devices*
Poster: *Photoinduced FT-IR spectroscopy and CW-
Photocurrent Measurements of Conjugated Polymers and
Fullerenes Blended into a Conventional Polymer Matrix*
C. J. Brabec, H. Johansson, F. Padinger, H. Neugebauer, J. C.
Hummelen and N. S. Sariciftci
Poster: *Stability Studies and Analysis of Degradation
Mechanisms of Conjugated Polymer / Fullerene Plastic Solar
Cell Components*
H. Neugebauer, C. J. Brabec and N. S. Sariciftci
Poster: *Characterization of Photovoltaic Devices Based on
Para-Hexaphenyl/C60 Bilayers*
G. Matt, C. J. Brabec, H. Neugebauer, H. Sitter and N. S.
Sariciftci
Talk (Brabec): *Large Area Flexible Photocells From
Fullerene - Conjugated Polymer Blends*
Further participators: T. Fromherz