

### III. SEMINARS & PRESENTATIONS / Vorträge und Konferenzbeiträge

24. - 26.1.00 "Organic Photonics Materials and Devices II", Conference 3939, Photonics West International Symposia, San Jose, CA, USA  
Invited Lecture (Lane): Internal electric field in organic light emitting diodes and solar cells by electroabsorption spectroscopy  
P. A. Lane, C. Giebeler, S. A. Whitelegg, S. J. Martin, A. Campbell, J. Rosalski, D. Meissner, D. D. C. Bradley
- 15.-19.2.00 Fourth International Conference on Optical Probes of Conjugated Polymers and Photonic Crystals, Salt Lake City, Utah (USA)  
Poster and Talk (Zerza): Quenching of the coherent vibrational oscillations by an ultrafast electron transfer  
G. Zerza, C. J. Brabec, N. S. Sariciftci, G. Cerullo, S.D. Silvestri  
Talk (Neugebauer): Photoexcited Spectroscopy and in situ Electrochemical Spectroscopy in Conjugated Polymers. A Comparative Study"  
Poster (Neugebauer): In situ Attenuated Total Reflection FTIR Spectroelectrochemistry of Benzimidazobenzophenanthroline (BBL)  
T. Yohannes, H. Neugebauer, N.S. Sariciftci, S. Yi and S.A. Jenekhe  
Poster (Neugebauer): Highly Ordered Crystalline Thin Film Bilayers of Para-Hexaphenyl and C60 Grown by Hot Wall Epitaxy  
H. Sitter, G. Matt. A. Andreev, C. J. Brabec, H. Neugebauer and N.S. Sariciftci  
Invited Talk (Sariciftci): Plastic Solar Cells Using Conjugated Polymer/Fullerene Composite Films  
Poster (Scharber): Quenching of the Magnetic Field Effect on the Photocurrent and Photocurrent Detected Magnetic Resonance in Conjugated Polymer - Fullerene Diodes  
M.C. Scharber, C. J. Brabec, F. Padinger and N. S. Sariciftci
4. - 11.3.00 XIVth International Winterschool on Electronic Properties of Novel Mat.: Molecular Nanostructures (IWEPM 2000), Kirchberg i. T. (A)  
Poster (Brabec): Direct Observation of Photoinduced Electron transfer from Conjugated Polymers to Fullerenes: Quenching of Coherent Photoexcitations  
C.J. Brabec, G. Zerza, N. S. Sariciftci, G. Cerullo and S. De Silvestri, J. C. Hummelen  
Poster (Shaheen): Field Effect Mobility Measurements of Conjugated Polymer/Fullerene Blends  
W. Geens, S. E. Shaheen, C.J. Brabec, J. Poortmans and N. S. Sariciftci

11. - 18. 3. 00                    12 Workshop on Quantum Solar Energy Conversion, Quantsol 2000  
Silva Gardena, Italy
- Invited lecture (Sariciftci): *Recent advances in conjugated polymer based plastic solar cells*
- C.J. Brabec, S.E. Shaheen, T. Fromherz, F. Padinger, D. Gebeyehu, N.S. Sariciftci
- Talk (Hiesgen): *Direct Investigation of the Electrochemical Double Layer*
- R. Hiesgen, D. Meissner
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28. -29. 3. 00                    DPG Frühjahrstagung Regensburg, Germany
- Talk (Hiesgen): *STM measurements of current/potential curves at a semiconductor surface*
- Renate Hiesgen, Dieter Meissner
- Further participants: D. Meissner, C. Brabec, M. Scharber
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1. - 5. 5. 00                    16th European PV Solar Energy Conference, Glasgow, UK
- Invited Plenary Talk (Meissner): *Highly Efficient Molecular Organic Solar Cells*
- J. Rostalski, D. Meissner
- Poster (Brabec): *Studies on Organic Solar Cells by Capacitance Methods*
- V.Dyakonov, J.Meyer, J.Parisi, C.J.Brabec, N.S.Sariciftci, J.C.Hummelen
- Poster (Faiman): *Photovoltaic Properties of a Fullerene / Conjugated Polymer Solar Cell*
- E. A. Katz, D. Berman, D. Faiman, Y. Cohen, F. Padinger, C. J. Brabec & N. S. Sariciftci
- Informationsstand QSEL und CDG (Padinger)
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- 14.-18.5.00                    197<sup>th</sup> Meeting of the Electrochemical Society, Toronto, Ontario  
(Canada)
- Talk (Scharber): *Photoexcited Magnetic Resonance Studies on Fullerenes and Fullerene Conjugated Polymer Composites*
- Poster(Hummelen): *Oligomer-Fullerene Dyads: Synthesis, Photophysics, and Performance as Active Layer Material in Photovoltaic Cells*
- J.C. Hummelen, E.Peeters, P.A.V.Hal, B. Voss, C. J. Brabec, N. S.Sariciftci, J.Knol

22. - 28. 5. 00      3rd International Conference on Electronic Processes in Organic Materials Kharkiv, Ukraine  
Talk (Meissner): *The p/n Junction in Molecular Organic Solar Cells*  
D. Meissner, J. Rostalski, A. Bertram
- 26.-27.5.00      Joule III Meeting, Universidad Complutense de Madrid, Madrid (Spain)  
Talk (Cravino): *Photophysical Properties of Electrochemically Prepared Double-Cable pIBTIC<sub>60</sub> - a Polythiophene with Pendant Acceptor Moieties*
- Juni 2000      CLEOQELS Conference 2000  
Poster (Cerullo): *Direct observation of the ultrafast electron transfer process in a polymer/fullerene blend*  
G. Cerullo, G. Lanzani, S. De Silvestri, Ch. J. Brabec, G. Zerza, N.S. Sariciftci, J.C. Hummelen
- 30.5. - 2.6.00      E-MRS 2000, Straßbourg  
Talk (Brabec): *Electrical Admittance Studies of Polymer Photo-Voltaic Cells*  
V. Dyakonov, J. Meyer, J. Parisi, C. J. Brabec, N. S. Sariciftci, J. C. Hummelen
1. -3. 6. 00      99. Hauptversammlung der Deutschen Bunsengesellschaft für Physikalische Chemie, Würzburg, Deutschland  
Talk (Hiesgen): *Elektrochemische Untersuchung der elektrolytischen Doppelschicht mit dem STM*  
R. Hiesgen, D. Meissner
18. - 22. 6. 00      8th International Fischer Symposium on Electrochemistry and the Environment, Karlsruhe, Germany  
Poster: *STM Measurement of Current-Potential Curves at a Semiconductor Surface*  
R. Hiesgen, D. Meissner
18. - 23. 6. 00      33rd Heyrovsky Discussion "Nanostructures on Electrodes" Trest Castle, Czech Republik  
Invited Lecture (Meissner): *Nanostructured Semiconductor/Metal/Electrolyte Interfaces*

15. - 21.7.00

International Conference on Science and Technology of Synthetic Metals, ICSM 2000, Bad Gastein (A)  
organized by Prof. Sariciftci and Dr. Neugebauer together with Prof. Leising and Dr. Resel

The proceedings of this conference were guest edited by our group

Poster (Gebeyehu): *Solid state dye-sensitized TiO<sub>2</sub> solar cells with poly(3-octylthiophene) as hole transport layer*

D. Gebeyehu, C.J. Brabec, F. Padinger, T. Fromherz, S. Spiekermann, N. Vlachopoulos, F. Kienberger, H. Schindler and N.S. Sariciftci

Poster (Zerza): *Ultrafast charge transfer in conjugated polymer-fullerene composites*

G. Zerza, C. J. Brabec, N. S. Sariciftci, G. Cerullo and S. De Silvestri

Poster (Cravino): *Synthesis and Spectroscopic Studies of a Novel Double-Cable Polythiophene with Pendant Fullerenes for Photovoltaic Applications*

A. Cravino, G. Zerza, H. Neugebauer, S. Bucella, M. Maggini, E. Menna, G. Scorrano, M. Svensson, M. R. Andersson, N. S. Sariciftci

Poster (Cravino): *Poly(2-hexyl-9,10-anthrylene vinylene) - A Class of Soluble Poly(anthrylene vinylene)s*

R. Muellner, A. Cravino, J. Williams, F. Stelzer, G. Leising

Poster (Scharber): *Magnetic Resonance Studies on Conjugated Polymer/ Fullerene Composites*

M. C. Scharber, N. A. Schultz, C.J. Brabec, N. S. Sariciftci

Poster (Padinger): *Degradation of Bulk Heterojunction Solar Cells Operated in an Inert Gas Atmosphere: A Systematic Study*

F. Padinger, T. Fromherz, P. Denk, C.J. Brabec, S. E. Shaheen, J. Zettner, T. Hierl and N. S. Sariciftci

Poster (Mühlbacher): *Sensitization of Photoconductive Polyimides for Photovoltaic Applications*

D. Mühlbacher, C.J. Brabec, N. S. Sariciftci, B. V. Kotov, V. I. Berendyaev, B. M. Romyantsev, J. C. Hummelen

Poster (Matt): *Para-sexiphenyl/C60 multilayers grown by hot wall epitaxy*

A. Andreev, G. Matt, H. Sitter, C.J. Brabec, P. Hinterdorfer, N. S. Sariciftci

Poster (Andreev): *Self-assembled growth of para-sexiphenyl thin films studied by atomic force microscopy*

A. Andreev, H. Sitter, C. Brabec, P. Hinterdorfer, G. Springholz, S. Sariciftci

Poster (Koppe): *Er<sup>3+</sup>- Emission From Organic Complexes Embedded In Thin Polymer Films*

M. Koppe, C.J. Brabec, N. S. Sariciftci, Y. Eichen, G. Nakhmanovich,

- E. Ehrenfreund, O. Epstein, W. Heiss  
Poster (Brabec): *Low Band-Gap Polymeric Photovoltaic Devices*  
 S. E. Shaheen, D. Vangeneugden, R. Kiebooms, D. Vanderzande, T. Fromherz, F. Padinger, C.J. Brabec and N. S. Sariciftci  
Talk (Brabec): *Organic Photovoltaic Devices produced from Conjugated Polymer / Methanofullerene Bulk Heterojunctions*  
Poster (Neugebauer): *In situ UV-VIS-NIR and Raman Spectroelectrochemical Studies of the Conjugated Ladder Polymer Polybenzimidazobenzophenanthroline (BBL)*  
 Teketel Yohannes, H. Neugebauer, S. Luzzati, M. Catellani, S. Yi, S. A. Jenekhe, N. S. Sariciftci  
Poster (Neugebauer): *Semiconductor/Conjugated Polymer/Electrolyte Interfaces Studied with Infrared Photospectroelectrochemistry*  
 H. Neugebauer, Teketel Yohannes, N.S. Sariciftci  
 A. Cravino, G. Zerza, H. Neugebauer, M. Maggini, S. Buccella, G. Scorrano, M. R. Andersson, M. Svensson, N. S. Sariciftci  
Poster (Meissner): *Photovoltaics of Interpenetrating Molecular Networks*  
 D. Meissner, J. Rostalski  
Further participants: E. Baumgartner, N. Schultz, S. Sariciftci, G. Prager
2. - 3. 8. 00      Organic Photovoltaics, Int. Symp. on Optical Science, Engineering, and Instrumentation, San Diego, CA, USA  
Invited Lecture (Meissner): *The Active Junction in Molecular Organic Solar Cells*  
 J. Rostalski, A. Bertram, D. Meissner  
Talk (Shaheen): *Highly-efficient plastic solar cells*  
 C.J. Brabec, S.E. Shaheen, N. Sariciftci, J.C. Hummelen
- 3.11.00      Physical Chemistry Lecture series, Universty of British Columbia, Vancouver, BC (Canada)  
Talk (Scharber): *Fullerene-Conjugated Polymer Photocells: A Route to Plastic Solar Cells*
3. - 4.11.00      Joule III Meeting, Università degli Studi di Trieste, Trieste (Italy)  
Talk (Cravino): *Photophysical Properties of pIBTIC<sub>60</sub> and pUCM6 - Electropolymerized Polythiophenes with Pendant Acceptor Moieties*  
 A. Cravino, G. Zerza

13. 11. 00 "Information and Proposers Day", EU DGXII Energy Programme  
Brussels, Belgium  
Invited lecture (Meissner): *Direct Solar Hydrogen Production*
- 29.11. - 3.12.00 Materials Research Society (MRS) 2000 Fall Meeting, Boston (USA)  
Invited lecture (Sariciftci): *Recent developments in plastic solar cells using conjugated polymer/fullerene composites*  
Lecture (Neugebauer): *Photoinduced charge carriers in a donor-acceptor double-cable polythiophene with covalently bond fullerene moieties*  
Antonio Cravino, Gerald Zerza, Helmut Neugebauer, N. S. Sariciftci  
Poster (Cravino): *Photoinduced Charge Carriers in a Donor-acceptor Double-cable Polythiophene with Covalently Bound Tetracyano-anthraquinodimethane Moieties*  
G. Zerza, A. Cravino, H. Neugebauer, N. S. Sariciftci, R. Gómez, J. L. Segura, N. Martín, M. Andersson, M. Svensson  
Poster (Cravino): *Oligo(p-phenylene vinylene) - fullerene Dyads Incorporated in Conjugated Polymer Plastic Solar Cells*  
A. Cravino, C. J. Brabec, A. Y. Andreev, R. Rittberger, N. S. Sariciftci, E. Peeters, R. A. J. Janssen, J. Knol, J. C. Hummelen  
Talk (Cravino): *Investigation of the Open Circuit Potential in Plastic Solar Cells - Pinning of the Fermi Energy*  
C. J. Brabec, A. Cravino, N. S. Sariciftci, J. Meyer, V. Dyakonov, J. Parisi, M. T. Rispens, J. C. Hummelen