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SINGLE-ATOM AND SINGLE- MOLECULE ELECTRONIC COMPONENTS (SASMEC) (MICYT, NWO, SNF)*

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NOVEL OPTICAL METHODS FOR SELF ASSEMBLED NANOSTRUCTURES (NOMSAN) (EPSRC, MICYT)*

Project Leader: **Dr. Kishan Dholakia**
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SURFACTANT-POLYELECTROLYTE NANOSTRUCTURE SELF-ASSEMBLY (SPENSA) (EPSRC, CEA)*

Project Leader: **Dr. Karen Edler**
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ASSEMBLY AND MANIPULATION OF FUNCTIONAL SUPRAMOLECULAR NANO- ARCHITECTURES AT SURFACES (FUN-SMARTS) (DFG, SNF, MICYT, CNR, NWO)*

Project Leader: **Dr. Mario Ruben**
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NANOSCALE ELECTRONIC DEVICES VIA TEMPLATING SUPRAMOLECULAR POLYELECTROLYTES (NEDSPE) (DFG, FNRS)*

Project Leader:

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SELF-ORGANIZED AMPHIPHILIC BLOCK COPOLYMER NANOSTRUCTURES (AMPHI) (GACR, CEA)*

Project Leader:

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ONE-DIMENSIONAL MOLECULAR SELF-ASSEMBLY ON VICINAL SURFACES (MOL-VIC) (MICYT, DFG)*

Project Leader:

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NANOSCALE ELECTRICAL TRANSPORT IN SELF-ORGANIZED MOLECULAR ASSEMBLIES (NETSOMA) (EPSRC, NWO, SNF)*

Project Leader:

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SELF-ASSEMBLED LOW- DIMENSIONAL SEMICONDUCTOR NANOSTRUCTURES (SALDSON) (SNF, EPSRC)*

Project Leader: **Professor Eli Kapon**
Swiss Federal Institute of Technology
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HIGHER LEVELS OF SELF-ASSEMBLY OF IONIC AMPHIPHILIC COPOLYMERS: STRATEGIES BASED ON MULTIPLE MOLECULAR INTERACTIONS (SONS-AMPHI) (DFG, NWO, CEA)*

Project Leader:

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Universität Bayreuth, Germany

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**Acronyms for the European
agencies funding SONS
Collaborative Research Projects.
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Self-Organised NanoStructures (SONS)



A EUROCORES PROGRAMME

EUROPEAN SCIENCE FOUNDATION COLLABORATIVE RESEARCH

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Self-Organised NanoStructures (SONS) are complex supramolecular structures that assemble themselves through hierarchical competing interactions between their components. Self-assembling materials offer a great range of scientific and technological potential breakthroughs.

Whilst many European countries have well-established *disciplinary* research programmes in nano-sciences, a strong effort across disciplines and countries is still required to achieve further developments at an internationally competitive level. To this end, this EUROCORES programme on SONS promotes *interdisciplinary* research by multi-national collaborations at the highest level of scientific excellence.

First SONS Conference in Strasbourg

The European Science Foundation will hold the first SONS Conference at the Palais de la musique et des congrès in Strasbourg on 24 and 25 May 2004, in conjunction with the European Materials Research Society (E-MRS) Spring Meeting of 24-28 May.

The Collaborative Research teams will present the latest progress of their projects.

For the conference programme, see www.esf.org/sons

For enquiries regarding participation opportunities please contact the Coordinator for EUROCORES Programmes in Materials Sciences.

Self-Organised Nanostructures (SONS) is a EUROCORES programme. The EUROCORES scheme is an innovative instrument to stimulate collaboration between research projects based in Europe. The principle behind the scheme is to provide a framework for national research funding organisations to fund collaborative research needs of the European scientific community in and across all scientific areas. ESF supports networking activities (conferences, workshops, publications, etc.) between Collaborative Research Projects.

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List of funded Collaborative Research Projects

BIO-ORGANICS NANO-STRUCTURING FOR MOLECULAR ELECTRONICS (BIONICS)
(DFG, NWO, CNR, FWO, EPSRC)*

Project Leader: Dr. Klaus Müllen
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Professor Bruno Samori
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Dr. Paolo Samori
Istituto di Sintesi Organica e Fotoreattività (CNR), Italy
Professor Frans C. de Schryver
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Professor Richard H. Friend
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STRUCTURE ELUCIDATION OF SHEAR ORIENTED IONIC SELF-ASSEMBLED MATERIALS (SISAM)
(DFG, AKA, NWO)*

Project Leader:
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NANOCHEMICAL PATTERNING COMBINING SELECTIVE MOLECULAR ASSEMBLY SYSTEMS AND COLLOIDAL LITHOGRAPHY ("NANO-SMAP")
(SNF, SRC, NWO, DFG)*

Project Leader:
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SYSTEM FOR PHOTONIC ADJUSTMENT OF NANO-SCALE AGGREGATED STRUCTURES (SPANAS)
(SRC, SNF, DFG, EPSRC)*

Project Leader:
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Professor Stefan Sinzinger
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Dr. Gordon Love
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(SUPRA)-SELF-ASSEMBLIES OF TRANSITION METAL NANOCCLUSERS (SSA-TMN)
(CNR CEA)*

Project Leader:
Dr. Alessandro Fortunelli
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TAKING STEPS TOWARDS "MOLECTRONICS": A VENTURE ENCOMPASSING NANO-TECHNOLOGY AND SYNTHETIC METHODOLOGY (NANOSYN)
(SNF, MCYT, EPSRC)*

Project Leader:
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