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**KEY=INITIATIVE - SANTOS CONRAD**

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### Nanosystems Initiative Munich

Cluster of Excellence : EXC 4 : Excellence Initiative - Exzellenzinitiative : Final Report : Funding Period: 2006-2012, 2012-2019 :  
DFG Project Number: 24040814

### Initiative Help

### US-Czechoslovak Relations from Versailles to Munich

### The Munich Initiative

### Book Two: Trepidius

*Createspace Independent Publishing Platform* **Would you know if you have gone too far trying to change the world? Trepidius picks up where Pax Mundi concluded. Amanda is devastated by the events in Egypt and has made finding her friend her top priority. Terry and Christine are tempted by an offer to join a larger world. Matthew's patience is tested as he is eager to return to the field for Victor. Harry is trying to discover the location of Kasbah while he builds his team for the Venezuela operation. Meanwhile, Munich Enterprises continues to work towards it's final objective. Everyone is discovering the price for changing the world.**

### Initiative Help: United States-Czechoslovak Relations from Versailles to Munich

Research in US and Czech archives form this dissertation's basis. Initiative help lends a framework through which to consider the US-Czechoslovak relationship. By exploring typically undervalued fields, humanitarian, public health and social welfare work and intellectual and educational exchange, it broadens the understanding of interwar US foreign relations.

### Sustainable Mobility in Munich

### Exploring the Role of Discourse in Policy Change

*Springer* **Chelsea Tschoerner-Budde analyzes discourse in two cases of sustainable mobility policymaking in Munich: cycling promotion and electric mobility promotion. Both cases revealed that the formation and integration of a new, socially driven discourse on everyday mobility was necessary for policy change. Historically, transport policy has been structured to improve flow and manage transport systems. The new 'everyday mobility cultures' approach presents a potential framework for improving policymaking and fostering a transition in the transport sector.**

### The Munich Initiative

### Book One: Pax Mundi

*Createspace Independent Publishing Platform* **How far would you go to change the world? Democracies are failing. They have become inefficient bureaucratic behemoths and must change. Munich Enterprises, an international corporation, has a plan. The plan is good but they have one problem: How do they deal with the world's militaries? For this, they need to recruit help. Amanda is a loyal, career-minded, low-level tech analyst with Munich Enterprises. She is about to be given a promotion which will change her life. Matthew is a former United States Marine and a security operator with Munich Enterprises. His efforts to help achieve the company's goals has encountered a serious obstacle. Meanwhile, Terry and Christine struggle with a border problem in Arizona which will soon attract the attention of Munich Enterprises. Munich Enterprises plans to use all of them to achieve their goals. Will they support the corporation's plan? Each of them must decide on their own how far they are willing go to change the world.**

## The Tehran Initiative

*Tyndale House Publishers, Inc.* **Book 2** in the bestselling 3-book espionage and spy thriller series that has sold 700,000 copies! New York Times bestselling author Joel C. Rosenberg returns with a pulse-pounding tale of international intrigue that will keep you on the edge of your seat and wondering . . . what if this worst-case scenario comes true? Is it fiction, or is it real? The world is on the brink of disaster. Iran has just conducted its first atomic weapons test. Millions of Muslims around the world are convinced their messiah—known as the Twelfth Imam—has just arrived on earth. Israeli leaders fear Tehran, under the Twelfth Imam's spell, will soon launch a nuclear attack that could bring about a second Holocaust and the annihilation of Israel. The White House fears Jerusalem will strike first, launching a massive preemptive attack against Iran's nuclear facilities that could cause the entire Middle East to go up in flames, oil prices to skyrocket, and the global economy to collapse. With the stakes high and few viable options left, the president of the United States orders CIA operative David Shirazi and his team to track down and sabotage Iran's nuclear warheads before Iran or Israel can launch a devastating first strike. But will they be too late?

## Inventive City-Regions

### Path Dependence and Creative Knowledge Strategies

*Ashgate Publishing, Ltd.* **Virtually every city-region in West and Central Europe has developed policies and strategies to attract, retain and encourage creative industries and knowledge-intensive services. Since most of these city-regions tend to see a creative knowledge economy as 'the best bet for the future', one of the main goals of such policies and strategies is increasing the international competitiveness of their city-region. Using the cities of Amsterdam, Barcelona, Birmingham, Helsinki, Leipzig, Manchester, and Munich as case studies, this book explores the spatial, economic, historical, socio-demographic, socio-cultural and political conditions that may determine whether a city-region is or can become attractive for creative and knowledge-intensive companies, and for the talented people working for or founding these companies. A comparison of the case studies and an overview of the key findings, similarities and differences which lead to policy recommendations as well as suggested directions for further research will make this book attractive to urban and regional academics, planners and students.**

### The Good Practices Catalogue of Participatory Urban Agriculture

*Založba ZRC* Katalog dobrih praks participativnega urbanega kmetijstva naslavlja nekaj glavnih izzivov občin, regij in držav v Podonavju, povezanih z upadom zmogljivosti javnih organov za uporabo participativnega pristopa v načrtovanju. Predstavljene so konkretne izkušnje z razvijanjem participativnega urbanega kmetijstva, ki so vplivale na izboljšanje javnih storitev, spodbujale aktivnejše državljanstvo, krepile sodelovanje javnosti in prispevale k trajnostnemu razvoju mest. Knjižica prinaša konceptualni premislek o urbanem kmetijstvu in njegovo sistematizacijo; analizo političnega okvira, ki podpira participativno urbano kmetijstvo v Podonavju; pregled evropskih programov in projektov, ki razvijajo urbano kmetijstvo in se posvečajo enakim ciljem kot projekt AgriGo4Cities; in predstavitev izbranih dobrih praks participativnega urbanega kmetijstva, katerih namen je predstaviti možne pristope k vzpostavljanju uspešnih participativnih vrtov. Katalog naslavlja raziskovalce, odločevalce in civilno družbo, ki jih zanimajo urbano kmetijstvo, participativno načrtovanje, družbeno vključevanje in trajnostni razvoj.

### Towards Mutual Security

### Fifty Years of Munich Security Conference

*Vandenhoeck & Ruprecht* **The Munich Security Conference, founded as "Wehrkundetagung" in 1963, has evolved into the leading independent forum for security policy. Traditionally seen as a kind of transatlantic family meeting for debating NATO strategy during the Cold War, the conference has increasingly broadened its agenda and today attracts participants from across the globe. Each year, dozens of heads of state and government, ministers, and experts from different fields of security policy gather in Munich for an open exchange of ideas and policies on the most pressing international security issues - ranging from regional conflicts, international peace operations and nuclear disarmament to cyber security and environmental challenges. On the occasion of the conference's 50th anniversary in 2014, a number of prominent participants, including former and current foreign and defense ministers, reflect on the conference's history and significance, some of the major issues debated, and on key security challenges facing the international community.**

### Transactions of the Fifteenth International Congress on Hygiene and Demography, Washington, September 23-28, 1912

### The Sustainable City VII

*WIT Press* **Containing research on sustainable urban redevelopment presented at the latest in a biennial series organised by the Wessex Institute of Technology, this book addresses an area of growing interest. The conference series was first held in 2000. These proceedings are split into two volumes. Urban areas produce a series of environmental challenges arising from the consumption of natural resources and the consequent generation of waste and pollution, contributing to the development of social and economic imbalances. All these problems, which continue to grow in our society, require the development of new solutions. Topics include: Volume I - Urban Strategies; Eco-town Planning; Planning, development and management; Planning, development and management for urban conservation and regeneration; Case studies; Landscape planning and design; Environmental management; Intelligent environments and emerging technologies. Volume II - Sustainable energy and the city; Waterfront developments; The community and the city; Quality of life; Cultural heritage issues; Transportation; Planning for risk; Planning for risk; Transport models in emergency conditions; Industrial wastes as raw materials; Waste management; Safety and security; The city heritage.**

### Understanding Mobilities for Designing Contemporary Cities

*Springer* **This book explores mobilities as a key to understanding the practices that both frame and generate contemporary everyday life in the urban context. At the same time, it investigates the challenges arising from the interpretation of mobility as a socio-spatial phenomenon both in the social sciences and in urban studies. Leading sociologists, economists, urban planners and architects address the ways in which spatial mobilities contribute to producing diversified uses of the city and describe forms and rhythms of different life practices, including unexpected uses and conflicts. The individual sections of the book focus on the role of mobility in transforming contemporary cities; the consequences of interpreting mobility as a socio-spatial phenomenon for urban projects and policies; the conflicts and inequalities generated by the co-presence of different populations due to mobility and by the interests gathered around major mobility projects; and the use of new data and mapping of mobilities to enhance comprehension of cities. The theoretical discussion is complemented by references to practical experiences, helping readers gain a broader understanding of mobilities in relation to the capacity to analyze, plan and design contemporary cities.**

## Center for Integrated Protein Science Munich - CIPSM

EXC 114 : Excellence Initiative - Exzellenzinitiative : Funding Periods 1:2006/2007-2012, 2:2012-2019 : Final Report for Cluster of Excellence : DFG Project Number: 24286268

## Anthology of German Psychiatric Texts

*John Wiley & Sons*

## Regional Energy Initiatives

## MedReg and the Energy Community

*Routledge* This book focuses on the two intra-regional initiatives created for the development and integration of energy markets: the Energy Community and MedReg. The Energy Community and MedReg, apart from their common strategic role in providing a much-needed stable regulatory environment for energy markets in their respective reference countries, represent examples of a diverse development of regional energy initiatives. The former is initiated by external factors and is an example of a top-down approach, whereas the latter is a voluntary bottom-up initiative of the countries involved. The way the institutional framework is built is not without consequences on the functioning and organization of the two regional initiatives. The book assesses these different approaches and their consequences in the framework of the development of the Energy Community and MedReg, with particular reference to their impact on regional integration, energy policy and institutional change. The analysis is enriched with several case studies on the role of independent regulatory agencies, the promotion of renewable energy sources, infrastructure and interconnection development across the Mediterranean basin and the implications of exporting the EU institutional model. This book is aimed at policy makers, institutions, energy companies and academics to provide a better understanding of the economic and institutional eco-system that characterize the Mediterranean area.

## CFN Lectures on Functional Nanostructures - Volume 2

## Nanoelectronics

*Springer Science & Business Media* This series of books contains selected and edited lectures from summer schools organized by the Center for Functional nanostructures (CFN) at the University of Karlsruhe. The mission of the CFN is to carry out research in the following areas: nanophotonics, nanoelectronics, molecular nanostructures and nanostructured materials. The aim of the summer schools is mainly to exchange new ideas and illustrate emerging research methodologies through a series of topical, introductory lectures. This is reflected by both the selection of topics addressed in the present volume, nanoelectronics, as well as the tutorial aspect of the contributions.

## Roosevelt and the Munich Crisis

## A Study of Political Decision-Making

*Princeton University Press* Franklin Roosevelt's intentions during the three years between Munich and Pearl Harbor have been a source of controversy among historians for decades. Barbara Farnham offers both a theory of how the domestic political context affects foreign policy decisions in general and a fresh interpretation of FDR's post-Munich policies based on the insights that the theory provides. Between 1936 and 1938, Roosevelt searched for ways to influence the deteriorating international situation. When Hitler's behavior during the Munich crisis showed him to be incorrigibly aggressive, FDR settled on aiding the democracies, a course to which he adhered until America's entry into the war. This policy attracted him because it allowed him to deal with a serious problem: the conflict between the need to stop Hitler and the domestic imperative to avoid any risk of American involvement in a war. Because existing theoretical approaches to value conflict ignore the influence of political factors on decision-making, they offer little help in explaining Roosevelt's behavior. As an alternative, this book develops a political approach to decision-making which focuses on the impact that awareness of the imperatives of the political context can have on decision-making processes and, through them, policy outcomes. It suggests that in the face of a clash of central values decision-makers who are aware of the demands of the political context are likely to be reluctant to make trade-offs, seeking instead a solution that gives some measure of satisfaction to all the values implicated in the decision.

## Climate Change Adaptation and Disaster Risk Reduction

## Issues and Challenges

*Emerald Group Publishing* This is the first academic publication to highlight the linkages between Climate Change Adaptation (CCA) and Disaster Risk Reduction (DRR). Key issues and challenges related to CCA-DRR synergy and interactions are highlighted throughout, mostly drawing lessons and experiences from the field practices and greatly increasing current awareness.

## Co-Manufacturing and New Economic Paradigms

*IGI Global* Workspaces and their design have a vast impact on the comfort and productivity of employees. Therefore, the structure of a workspace can be used to determine the socio-economic characteristics and elements that will appear in the employees that utilize them. Co-Manufacturing and New Economic Paradigms provides innovative insights into shared workspaces as independent socio-economic environments. The content within this publication explores the ideas of knowledge sharing, work culture, and economic planning. It is a vital reference source for entrepreneurs, business professionals, and researchers, and it covers topics centered on the importance of workspace design and organization.

## Transforming Urban Economies

### Policy Lessons from European and Asian Cities

*Routledge* Cities house the majority of the world's population and are the dynamic centres of 21st century life, at the heart of economic, social and environmental change. They are still beset by difficult problems but often demonstrate resilience in the face of regional and national economic decline. Faced by the combined threats of globalisation and world recession, cities and their metropolitan regions have had to fight hard to maintain their global competitiveness and protect the quality of life of urban residents. *Transforming Urban Economies: Policy Lessons from European and Asian Cities*, the first in an ongoing series of research volumes by LSE Cities, provides insights in how cities can respond positively to these challenges. The fine-grained and authoritative analysis of how Barcelona, Turin, Munich and Seoul have been transformed in the last 20 years examines comparative patterns of decline, adaptation and recovery of cities that have successfully managed to transform their economies in the face of economic hardship. This in-depth and practical analysis is aimed at urban leaders, designers, planners, policymakers and scholars who want to understand the dynamics of economic resilience while cities are still suffering from the aftershocks of the 2008 recession. The book highlights the importance of aligned and multi-level governance, the need for strategic public investments and the role of the private sector, universities and foundations in leading and guiding complex processes of urban recovery in an increasingly uncertain age.

### Ultrafast Dynamics in Molecules, Nanostructures and Interfaces

*World Scientific* Primary events in natural systems or devices occur on extremely short time scales, and yet determine in many cases the final performance or output. For this reason research in ultrafast science is of primary importance and impact in both fundamental research as well as its applications. This book reviews the advances in the field, addressing timely and open questions such as the role of quantum coherence in biology, the role of excess energy in electron injection at photovoltaic interfaces or the dynamics in quantum confined structures (e.g. multi carrier generation). The approach is that of a monograph, with a broad tutorial introduction and an overview of the recent results. This volume includes selected lectures presented at Symposium on Ultrafast Dynamics of the 7th International Conference on Materials for Advanced Technologies. Contents: Femtosecond Real-Time Vibrational Spectroscopy Using Ultrafast Laser Pulses (Takayoshi Kobayashi and Juan Du) Multidimensional Optical Spectroscopy Using a Pump-Probe Configuration: Some Implementation Details (Zhengyang Zhang and Howe-Siang Tan) High-Sensitivity Ultrafast Transient Absorption Spectroscopy of Organic Photovoltaic Devices (Alex J Barker, Kai Chen, Shyamal Prasad and Justin M Hodgkiss) Transient Absorption Data Analysis by Soft-Modelling (I A Howard, H Mangold, F Etzold, D Gehrig and F Laquai) Infrared Ultrafast Optical Probes of Photoexcitations in  $\pi$ -Conjugated Polymers/Fullerene Blends for Photovoltaic Applications (C-X Sheng, U Huynh and Z V Vardeny) Ultrafast Optical Probing of Carrier Motion in Conjugated Polymers and Blends for Solar Cells (Vidmantas Gulbinas, Andrius Devizis, Domantas Peckus and Dirk Hertel) Singlet Fission in Organic Crystals (Lin Ma, Christian Kloc, Cesare Soci, Maria E Michel-Beyerle and Gagik G Gurzadyan) Mapping Carrier Diffusion in Single Silicon Core-Shell Nanowires with Ultrafast Optical Microscopy (Minah Seo, Jinkyong Yoo, Shadi Dayeh, Julio Martinez, Brian Swartzentruber, Samuel Picraux, Antoinette Taylor and Rohit Prasankumar) Exciton Dynamics and Its Regulation Ability in Photosynthesis (V Balevicius, Jr, L Valkunas and D Abramavicius) Ultrafast Intramolecular Dynamics in Novel Star-Shaped Molecules for Photovoltaic Applications (Oleg V Kozlov, Yuriy N Luponosov, Sergei A Ponomarenko, Dmitry Yu Paraschuk, Nina Kausch-Busies and Maxim S Pshenichnikov) Nonlinear Spectroscopy of Interfaces and Its Application to Organic Electronics (Silvia G Motti, Francisco C B Maia and Paulo B Miranda) Photoinduced Charge Transfer Dynamics at Hybrid GaAs/P3HT Interfaces (Jun Yin, Manoj Kumar, Majid Panahandeh-Fard, Zilong Wang, Francesco Scotognella and Cesare Soci) The First Step in Vision: Visualizing Wavepacket Motion through a Conical Intersection (Dario Polli, Daniele Brida, Cristian Manzoni, Giulio Cerullo, Piero Altoe', Marco Garavelli, Oliver Weingart, Katelyn Spillane, Philipp Kukura and Richard A Mathies) Ultrafast Investigation of Energy and Charge Transfer in a Prototypical Photovoltaic Blend (Guglielmo Lanzani, Ajay Ram Srimath Kandada and Daniele Fazzi) Vacancy-Doped Plasmonic Copper Chalcogenide Nanocrystals with Tunable Optical Properties (Ilka Kriegel, Jessica Rodríguez-Fernández, Chengyang Jiang, Richard Schaller, Enrico Da Como, Dmitri V Talapin, Jochen Feldmann) Readership: Academics and professionals in the fields of physics, chemistry and material science. Keywords: Nanostructure; Interface; Semiconductor; Nanoelectronics; Optics; Surface Reviews: "This book provides an excellent introduction to the basics of ultrafast dynamics, describes advanced experimental methods and important applications to biological, charge transfer, low-dimensional systems and others. It is highly recommended to researchers and graduate students in the field of ultrafast laser spectroscopy." Prof. Alan Heeger Nobel Laureate in Chemistry, 2000

## Germany

### Proceedings of the International Coral Reef Initiative (ICRI) Regional Workshop for the Indian Ocean, 2001

Maputo, Mozambique, November 26-28, 2001

### Tibet Support Group Munich

Tibet Support Group - Munich is a non-profit organization supporting the Tibetan people. Their site has information about the group, links to Tibetan news sites, information on their traveling photo exhibition on Tibet with an overview of the situation in Tibet, a history of modern Tibetan history and information on the current situation in Tibet focusing on human rights issues among many other problems.

## Houses of Religions

### Visions, Formats and Experiences

*LIT Verlag Münster* Houses of Religions are a new phenomenon in urban settings and promise to create a space with religious meaning for everyone in the city; or at least, to be much more than an ecumenical chapel, a church, a synagogue, a temple or a mosque. Projects of Houses and Centers around the globe have contributed to this volume: Bern, Hannover, Berlin, Vienna, Stockholm, Munich, London, New York, Jerusalem, Taipei and Abu Dhabi. Theoretical attempts to understand Houses of Religions and their creation of meaning within multicultural societies set the final accord.

### Lawmaking by Initiative

## Issues, Options and Comparisons

*Algora Publishing* This book describes the history of the initiative process and the major issues that have arisen during its increasing use in recent years. By elucidating the problems that have arisen and their possible solutions, the authors seek both to inform the debate about the wisdom of the initiative and to offer suggestions for improvement to jurisdictions that choose to use the process. With the aid of more than 40 charts and tables, the authors compare the major features of the initiative in the American jurisdictions that have adopted the procedure-24 states and the District of Columbia. They draw particularly on the experience in California, the most frequent U.S. user of the initiative and a major battleground in the development of ideas about the process. The book also discusses the use of the initiative in other countries, particularly Switzerland, where the process originated and the only other major country in the world that makes extensive use of the initiative today.

## Advances in Microfluidics Technology for Diagnostics and Detection

*MDPI* Microfluidics and lab-on-a-chip have, in recent years, come to the forefront in diagnostics and detection. At point-of-care, in the emergency room, and at the hospital bed or GP clinic, lab-on-a-chip offers the potential to rapidly detect time-critical and life-threatening diseases such as sepsis and bacterial meningitis. Furthermore, portable and user-friendly diagnostic platforms can enable disease diagnostics and detection in resource-poor settings where centralised laboratory facilities may not be available. At point-of-use, microfluidics and lab-on-chip can be applied in the field to rapidly identify plant pathogens, thus reducing the need for damaging broad spectrum pesticides while also reducing food losses. Microfluidics can also be applied to the continuous monitoring of water quality and can support policy-makers and protection agencies in protecting the environment. Perhaps most excitingly, microfluidics also offers the potential to enable entirely new diagnostic tests that cannot be implemented using conventional laboratory tools. Examples of microfluidics at the frontier of new medical diagnostic tests include early detection of cancers through circulating tumour cells (CTCs) and highly sensitive genetic tests using droplet-based digital PCR. This Special Issue on "Advances in Microfluidics Technology for Diagnostics and Detection" aims to gather outstanding research and to carry out comprehensive coverage of all aspects related to microfluidics in diagnostics and detection.

## Munich Cluster for Systems Neurology (SyNergy)

Cluster of Excellence : EXC 1010 : Excellence Initiative - Exzellenzinitiative : Final Report : Funding Period: 11/2012-12/2018 :  
DFG Project Number: 194407705

## "Frozen conflicts" in Europe

*Verlag Barbara Budrich* Oft forgotten but simmering "frozen conflicts" continuously mark the political map of Europe. All located in South Eastern Europe, the Black Sea area and Transcaucasia, these conflicts run along ethnic, national, cultural and linguistic lines, separating communities. This insightful book offers a rare critical analyses of the cases of Northern Cyprus, Transnistria, Abkhazia, South Ossetia, Nagorno-Karabakh, Kosovo, and Crimea.

## Perspectives and Initiatives in the Times of Coronavirus

## The School of Spiritual Science

*Rudolf Steiner Press* The School of Spiritual Science, with its headquarters at the Goetheanum in Dornach, Switzerland, has eleven sections that are active worldwide in research, development, teaching and the practical implementation of research results. During the early stages of the Corona pandemic of 2020, the sections of the School made individual contributions to the crisis in the form of sixteen essays that offer insights, perspectives and approaches to tackling the challenges of Coronavirus through spiritual-scientific knowledge and practice. The work of each of the School's sections seeks to develop anthroposophy - as founded by Rudolf Steiner (1861-1925) - in a contemporary context through the core disciplines of general anthroposophy, medicine, agriculture, pedagogy, natural science, mathematics and astronomy, literary and visual arts and humanities, performing arts and youth work. The featured essays include: Creating Spaces of Inner Freedom - Training Approaches in Times of Uncertainty and Fear; The Hidden Sun - Reality, Language and Art in Corona Times; Consequences of COVID-19 - Perspectives of Anthroposophic Medicine; Aspects of Epidemic Infectious Diseases in Rudolf Steiner's Work-; Challenges and Perspectives of the Corona Crisis in the Agricultural and Food Industry; Corona and Biodynamic Agriculture; Our Relationship with Animals; The Part and the Whole - On the Cognitive Approach of Anthroposophical Natural Science; Comparing the Constellations of the Corona Pandemic and the Spanish Flu; Aspects of Dealing with the Corona Crisis for Youth; 'Crisis Implies that it's Unclear ... as to What, How, Why and by Whom Things Need to be Done'; Education in Times of Corona; Understanding History from the Future - Crisis as Opportunity; Social Challenges and Impulses of the COVID-19 Pandemic; Consequences of COVID-19 - The Perspective of Anthroposophic Curative Education, Social Pedagogy, Social Therapy and Inclusive Social Development; A Medicalized Society?

## Behind the Angel of History

## The "Angelus Novus" and Its Interleaf

*University of Chicago Press* "This short book offers a dazzling new interpretation of Paul Klee's most famous work: his Angelus Novus (1920), which was purchased by Walter Benjamin and became the model for his Angel of History, a figure saturated with Jewish mysticism that he introduces in his "Theses on the Philosophy of History." In 2014 the celebrated American artist R. H. Quaytman made a surprising discovery about Klee's work when she examined it at the Jewish Museum in Israel. She realized that Klee had carefully pasted the Angelus down over another image, a face, leaving just a finger's breadth of it showing. Through forensic science and lots of sleuthing it was determined that face belonged to Martin Luther. Behind the Angel of History tells the story of how Quaytman solved the mystery of who lurks behind Klee's angel. It then plunges into questions about why a face long hidden beneath another picture might matter. The book travels through a tangle of loaded conversations among images-from Klee's Angelus to Benjamin's own drawing of a crucified angel, from Klee's Angelus to Quaytman's own layered panels meditating on its secret"--

## Daily Report, Foreign Radio Broadcasts

## Military Government, Weekly Information Bulletin

## Single Molecule Spectroscopy in Chemistry, Physics and Biology

*Springer Science & Business Media* Written by the leading experts in the field, this book describes the development and current state of the art in single molecule spectroscopy. The application of this technique, which started 1989, in physics, chemistry and biosciences is displayed.

### Nucleic Acid Transfection

*Springer Science & Business Media* **Gene Delivery into Mammalian Cells: An Overview on Existing Approaches Employed In Vitro and In Vivo**, by Peter Hahn and Elizabeth Scanlan \* **Strategies for the Preparation of Synthetic Transfection Vectors**, by Asier Unciti-Broceta, Matthew N. Bacon, and Mark Bradley \* **Cationic Lipids: Molecular Structure/Transfection Activity Relationships and Interactions with Biomembranes**, by Rumiana Koynova and Boris Tenchov \* **Hyperbranched Polyamines for Transfection**, by Wiebke Fischer, Marcelo Calderon, and Rainer Haag \* **Carbohydrate Polymers for Nonviral Nucleic Acid Delivery**, by Antons Sizovs, Patrick M. McLendon, Sathya Srinivasachari, and Theresa M. Reineke \* **Cationic Liposome-Nucleic Acid Complexes for Gene Delivery and Silencing: Pathways and Mechanisms for Plasmid DNA and siRNA**, by Kai K. Ewert, Alexandra Zidovska, Ayesha Ahmad, Nathan F. Bouxsein, Heather M. Evans, Christopher S. McAllister, Charles E. Samuel, and Cyrus R. Safinya \* **Chemically Programmed Polymers for Targeted DNA and siRNA Transfection**, by Eveline Edith Salcher and Ernst Wagner \* **Photochemical Internalization: A New Tool for Gene and Oligonucleotide Delivery**, by Kristian Berg, Maria Berstad, Lina Prasmickaite, Anette Weyergang, Pål K. Selbo, Ida Hedfors, and Anders Høgset \* **Visualizing Uptake and Intracellular Trafficking of Gene Carriers by Single-Particle Tracking**, by N. Ruthardt and C. Bräuchle

### Advanced Photon Counting

### Applications, Methods, Instrumentation

*Springer* This volume focuses on Time-Correlated Single Photon Counting (TCSPC), a powerful tool allowing luminescence lifetime measurements to be made with high temporal resolution, even on single molecules. Combining spectrum and lifetime provides a “fingerprint” for identifying such molecules in the presence of a background. Used together with confocal detection, this permits single-molecule spectroscopy and microscopy in addition to ensemble measurements, opening up an enormous range of hot life science applications such as fluorescence lifetime imaging (FLIM) and measurement of Förster Resonant Energy Transfer (FRET) for the investigation of protein folding and interaction. Several technology-related chapters present both the basics and current state-of-the-art, in particular of TCSPC electronics, photon detectors and lasers. The remaining chapters cover a broad range of applications and methodologies for experiments and data analysis, including the life sciences, defect centers in diamonds, super-resolution microscopy, and optical tomography. The chapters detailing new options arising from the combination of classic TCSPC and fluorescence lifetime with methods based on intensity fluctuation represent a particularly unique highlight.

### Polymers in Nanomedicine

*Springer Science & Business Media* **Functional Polymer Conjugates for Medicinal Nucleic Acid Delivery**, by Ernst Wagner **Biodegradable Nanoparticles as Vaccine Adjuvants and Delivery Systems: Regulation of Immune Responses by Nanoparticle-Based Vaccine**, by Takami Akagi, Masanori Baba and Mitsuru Akashi **Biodegradable Polymeric Assemblies for Biomedical Materials**, by Yuichi Ohya, Akihiro Takahashi and Koji Nagahama **PEGylation Technology in Nanomedicine**, by Yutaka Ikeda and Yukio Nagasaki **Cytocompatible Hydrogel Composed of Phospholipid Polymers for Regulation of Cell Functions**, by Kazuhiko Ishihara, Yan Xu and Tomohiro Konno **Design of Biointerfaces for Regenerative Medicine**, by Yusuke Arima, Koichi Kato, Yuji Teramura and Hiroo Iwata **Advances in Tissue Engineering Approaches to Treatment of Intervertebral Disc Degeneration: Cells and Polymeric Scaffolds for Nucleus Pulposus Regeneration**, by Jeremy J. Mercuri and Dan T. Simionescu **Functionalized Biocompatible Nanoparticles for Site-Specific Imaging and Therapeutics**, by Ranu K. Dutta, Prashant K. Sharma, Hisatoshi Kobayashi and Avinash C. Pandey

### Mesoporous Materials for Drug Delivery and Theranostics

*MDPI* Mesoporous materials are capturing great interest thanks to their exceptional surface area, uniform and tunable pore size, ease surface functionalization, thus enabling broad series of intervention in the field of nanomedicine. Since many years, these aspects foster a deep investigation on mesoporous nanoparticles, to design and fabricate biocompatible, smart and stimuli-responsive nanotools for controlled drug- or gene-delivery, theranostics applications, in particular for cancer therapy, and tissue engineering. This Book is thus dedicated to the most recent advances in the field, collecting research papers and reviews. It spans from the synthesis and characterization of the mesoporous material, especially those made of silica, silicon and bioactive glasses, to their functionalization with smart gate-keepers, reporter molecules or targeting ligands, up to their in-vitro applications in the nanomedicine field.

### Vulnerable Countries and People

### How Disaster Risk Reduction & Insurance Can Help Manage the Risks of Climate Change : a Product of Munich Climate Insurance Initiative, MCII