

The World Data Centre for Microorganisms (WDCM) Workshop---

**TRUST Series meeting: Information
Technology to implement the CBD/NP in
microbiology**

May 22-24, Shanghai, China

Introduction of Participants

(listed in alphabetical order)

Alexander Vasilenko, holds a MS in mathematics from



Department of Mechanics & Mathematics, Moscow State university (1970). From 2011 till now, he is IT specialist in All-Russian Collection of Microorganisms (VKM), WP leader in Russian-European project BRIO and

the Task leader in European project MIRRI. From 1995 to 2011, he was the IT specialist in companies: CCI, Kosmos-TV, AKADO; from 1970 to 1995, he was the Programmer, IT specialist, head of R&D group in State department. He took part in preparation of software package PNP/PL sold in USSR. His software product sold in other countries – BIOMATRIX.

Languages: Russian, Ukrainian, English

Erko Stackebrandt, holds a Ph.D. in Microbiology from the

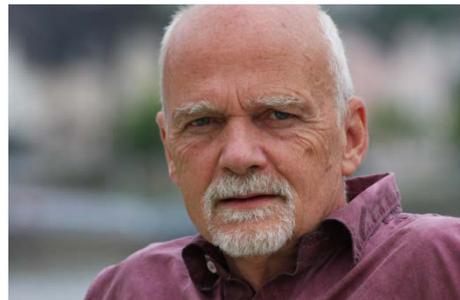
Ludwig-Maximilians University Munich (1974). During his postdoctoral

research he worked at the German

Culture Collection in Munich

(1972-1977), 1978 with Carl Woese at

the University of Illinois, Urbana



Champaign, and from 1979-1983 he was a member of Karl Schleifer's research group at the Technical University, Munich. He habilitated in 1983 and was appointed head of the Departments of Microbiology at the University of Kiel (1984-1990), at the University of Queensland, Brisbane, Australia (1990-1993) and from 1993-2009 at the Technical University Braunschweig, where he also was the director of the DSMZ-German Collection of Microorganisms and Cell Cultures GmbH. He is involved in systematics, and molecular phylogeny and ecology of Archaea and Bacteria for more than 40 years. He has been involved in many research projects funded by the German Science Foundation, German Ministry for Science and Technology and the European Union, working on pure cultures and microbial communities. Projects include work in soil and peat, Mediterranean coastal waters, North Sea and Baltic Sea, Antarctic Lakes, Australian soil and artesian wells, formation of Stromatolites, as well as on giant ants, holothurians, rumen of cows and the digestive tract of koalas. He has been involved in the description and taxonomic revision of more than 650 bacterial taxa of various ranks. He was a Heisenberg stipend (1982-1983) and his work has been awarded by the Academy of Science at Göttingen, Bergey's Trust (Bergey's Award and Bergey's Medal), the Technical University Munich, the Australian Society for Microbiology and the American Society for Microbiology. He had teaching positions in Kunming-China, Budapest-Hungary and

Florence-Italy. He has published more than 650 papers in refereed journals and he has written more than 80 book chapters. He is an editor of two Springer journals and served as an associate editor of several international journals and books as well as on national and international scientific and review panels of the German Research Council, European Science Foundation, European Space Agency and the Organisation for Economic Co-Operation and Development. At present he is the coordinator of the ESFRI project “Microbial Resource Research Infrastructure”.

Funabiki Rie, a staff member of the Office for Global Initiatives,



NITE Biological Resource Center (NBRC). After having completed a Masters degree in Psychology, she joined the NBRC in 2005 as an administrative staff. Since then, she has dealt with various international collaboration projects between NBRC and other BRCs in Asia.

Also, she has experience in negotiation for a new agreement, developing a scheme related to transfer and sustainable utilization of microbial resources in multilateral settings, and various matters on access and benefit sharing related to the use of the microbial resources. She recently involves with the meetings and discussion on the issues of BRC

management in line with the implementation of the Nagoya Protocol. In addition, she serves as one of the Secretariat members of the Asian Consortium for the Conservation and Sustainable Use of Microbial Resources (ACM). Relating to the activities in the ACM, she is a member of the Management of Material Transfer (MMT) Taskforce, which is one of the three taskforces in the ACM.

Geoff Burton is Adjunct Senior Fellow of the United Nations University, Institute of Advanced Studies (UNU IAS). He manages its ABS programme and also champions taxonomy, economically efficient intellectual property systems and biodiversity conservation. He provides expert policy and practical advice to countries on domestic and international ABS. He is also the author of numerous papers and presentations on ABS, Traditional Knowledge and the Nagoya Protocol: delivering conference papers in 2011/12 in Canada, Norway, Korea, Japan, Switzerland, France, Germany, Denmark, Australia, Samoa, Fiji and Brazil. His most recent publication is as a contributing author to *The 2010 Nagoya Protocol on Access and Benefit-sharing in Perspective*, Morgara and Buck, Brill 2012. Mr Burton was formerly Australia's Competent National Authority on Access and Benefit-sharing (ABS) and was responsible for the development and implementation of



national ABS laws and policy. For 7 years he was Australia's lead negotiator on ABS issues at the CBD until 2006. In 2005 he co-chaired the first round of negotiations within the CBD on the development of an international regime on genetic resources. In March 2010 he co-chaired the inter-ministerial meeting between European and African Ministers at the African Ministers' Conference on Access and Benefit Sharing (ABS) held in Windhoek, Namibia. More recently, he has been undertaking capacity-building within the ASEAN and Pacific regions, while continuing research on behalf of the United Nations University, Institute of Advanced Studies.

George M. Garrity, who is a professor of Microbiology and



Molecular Genetics at Michigan State University and co-founder and managing member of NamesforLife, LLC, a bioinformatics spin-off that was formed to commercialize proprietary terminology tracking and management technology

developed at MSU. From 1996–2006, George served as Editor-in-Chief of Bergey's Manual of Systematic Bacteriology and from 2005-2008 as vice-chairman of the Judicial Commission of the International Committee on Systematics of Prokaryotes. He is currently the chair of the

International Committee on the Systematics of Prokaryotes and a core member of the Genomic Standards Consortium and founding editor and editor-in-chief of Standards in Genomic Sciences, an open access journal that began publishing during the 2Q 2009. He is currently the principal investigator on a DOE-funded project to develop a standardized terminology of microbial phenotypes that leverages the NamesforLife semantic model and tools that were created under earlier awards (e.g., visualization tools and algorithms for detecting annotation errors/anomalies and improving sequence-based classifications and taxonomies, on-the-fly and embedded annotation of biological names in text using persistent identifiers). He was also co-investigator on the Ribosomal Database Project (RDP). George is a Fellow of the American Association for the Advancement of Science and a Fellow of the Society for Industrial Microbiology, Chair of Division O (Fermentation Microbiology) of the American Society for Microbiology and the 2011 recipient of the van Niel International Prize for Studies in Bacterial Systematics. Before arriving at MSU, George held a number of positions of increasing responsibility in the natural products screening program at Merck & Co. He was also one of the lead scientists on the Merck-InBIO agreement. George received his doctorate in microbiology from the University of Pittsburgh, Graduate School of Public Health in 1980.

Hiroko Kawasaki holds a Ph.D. degree and she is a director of Global Initiatives Office and Curator for Yeast at NBRC Culture Collection, Biological Resource Center, National Institute of Technology and Evaluation. She got Ph.D. (Agriculture) at The Tokyo University as a titled “The study of molecular taxonomy of phototrophic bacteria” on March 1997. Current her research filed is Yeast Taxonomy, and Development of Rapid Identification of Microorganisms. In addition, she has involved several international research collaboration projects with Southeast Asiain the field of Biotechnology and Diversity of bio-resources for 16 years. She has a secretariat of Asian Consortium for the Conservation and Sustainable Use of Microbial Resources (ACM).



Juncai Ma, who graduated from Biological Resource Department of Mie University, Japan in 2006, is the Director of Information Network Center, IMCAS. He is also the Director of WFCC –MIRCEN World Data Center for Microorganisms (WDCM), executive of World Federation for Culture Collections, commissioner of CODATA Chinese National Committee, CAS and



member of Committee on Type Culture Collection, CAS. Currently he is mainly engaged in the research work on bio-grid, parallel indexing, super large-scaled full-text retrieval technology, search engine of remote heterogeneous databases and comprehensive utilization of IT technology in the field of biology.

Ken-ichiro Suzuki is Director-General of NBRC Culture Collection of National Institute of Technology and Evaluation (NITE), a national biological resource center for microorganisms of Japan since 2002. He was the Vice President of World Federation of Culture Collections (WFCC), an organization under the International Union of Microbiological Societies (IUMS) from 2004 to 2010 and currently the President of Japan Society for Culture Collections (JSCC). Suzuki Ken-ichiro has been working in the community of microbiology by managing culture collections of Japan, JCM and NBRC for collecting, preserving and supplying microbial cultures to scientists. His specialty is taxonomy of bacteria with more than 100 original papers and related publication. Microbial taxonomy is contributing to the maintenance of the quality of cultures in the collection.



Linhuan Wu, whose specialty is microbial resources information system and software platform. She has been working in information center of Institute of Microbiology, Chinese Academy of Sciences by joining the project of Asian biological resources center network (ABRCN) and domestic data management system for microbial resources. Currently, Dr. Wu is working on the WFCC Global Catalogue of Microorganisms (GCM) for WDCM.



Oleg S. Stupar holds a Ph.D in microbiology from Institute of Biochemistry and Physiology of Microorganisms, Pushchino, Moscow region, USSR(1991). His scientific experience was in Institute of Biochemistry and Physiology of Microorganisms, Russian Academy of Sciences: 1976-1977, Probationer-researcher in Laboratory of microorganism ontogenesis; 1980-1991, Researcher in All-Union Collection of Microorganisms; 1995-1999, Assistant-director. He became Head of coordination and information department of All-Russian Collection of Microorganisms (VKM) in 2003. And in 2010, he became Board member of World Federation of Culture Collections (WFCC). His



business experience could be divided into two periods: 1991-1995 Deputy Director of “Torin Ltd.”; 1999-2003 Deputy Director of “EcoBioTechnology” Ltd. In 1997-1998 the analysis of scientific innovation projects of Pushchino Research Center was fulfilled. As the most perspective project they selected the biopreparation Pseudobacterin-2 for plant protection. In 1999 EcoBioTechnology Ltd. signed the License Agreement with Institute of biochemistry and physiology of microorganisms of Russian Academy of Sciences and performed some formal steps to obtain permission for field application of Pseudobacterin-2. They received a limited registration and permission for its usage for 4 years at the State Chemical Commission at Ministry of Agriculture and Foods of Russian federation. During 1999-2003 they performed multiple laboratory and field trials on biological and commercial effectiveness of Pseudobacterin-2 as well as other biopreparations for plant protection on different crops, organized investigations of its toxicology and received necessary documents for permanent registration. The main production of Pseudobacterin-2 was established in Pushchino and licensed regional production had began at Krasnodar, Omsk, Ioshkar-Ola and Stavropol. They contacted with local administrations and created the dealer and distributor network at 18 regions of Russia from Krasnodar (south Russia) to Irkutsk (Siberia). In 2003 Pseudobacterin-2 received permanent registration for plant

protection on cereals, sugar beet, tomatoes and cucumbers and was used on the area more than 300 000 hectares.

Philippe Desmeth, President of WFCC, by training bio-engineer and environmental advisor, gained field experience in agro-industrial



production and continuing education for farmers in West Africa and Southeast Asia. He worked several years in the private sector in financial departments.

After having completed a post-graduate training in environmental science he worked for NGO

including the World Wide Fund for Nature as scientific officer. Research Assistant at the Université catholique de Louvain, he joined the Belgian Co-ordinated Collections of Micro-organisms (BCCM) in 1996 as international co-operation programme manager. He was appointed to set up the BCCM co-operation programme with institutions in developing and developed countries. He develops standard procedures and equitable co-operation schemes for BCCM co-operation projects, and has coordinated EU funded projects MOSAICC and MOSAICS. He is member of ECCO, the European Culture Collections Organisation.

Qinglan Sun has been working in information center of Institute of Microbiology, Chinese Academy of Sciences by managing



CCINFO/Refstrain/ABC database construction and maintenance. Her specialty is bioinformatics with several years' experience with Genechip data analysis.

Shanshan Qian holds a Master of Science Degree in food science and nutrition in University of New South Wales, Australia (2011). She has worked in Institute of Microbiology, Chinese Academy of Science since October, 2011. In 2012, she has participated in the project of the Lineage of Chinese Contemporary biologists. At the beginning of 2013, she joined in WDCM as a secretary. Now, she is taking charge of international affairs in WDCM.



Takashi Itoh holds a Ph.D. Degree in agriculture(1999). Currently,



he is a Senior Research Scientist in Japan Collection of Microorganisms and Curator of archaea and bacterial extremophiles. His research activities are about exploration and systematic studies of thermophilic and halophilic archaea/bacteria. The international research collaborations included systematic studies on thermophilic archaea from terrestrial hot springs

(Philippines), systematic studies on halophilic archaea and bacteria from salterns (Australia), salt lakes (China), salt lakes and mines (Romania) and salted foods (Thailand). He won the 2010 Award of the Japan Society for Culture Collections. Itoh is also a board member of World Federation for Culture Collections (2010-), Japan Society for Archaea (1999-), Japanese Society for Extremophiles (2005-), Japan Society for Microbial Systematics (2011-) and Co-editor of Microbiology and Culture Collections, Japan Society for Culture Collections (1999-).

Yuguang Zhou. Senior Engineer. Currently, he is the General of Microbiological Culture Collection Centers in China and also the



Vise-Chief of Biological Resources Centre in Institute of Microbiology, CAS. His area of expertise is in microbial diversity, bacteria systematic, microbial preservation technology and management of microbial resources. He has

participated in the research projects in the field of microbial resources for platform construction of National Science and Technology basic conditions; the Strategy of Biological Resources in Chinese academy of sciences; biological resources survey From Ministry of Environmental Protection. Meanwhile, he has hosted and participated in the projects from National ministry of science and technology, Ministry of

Environmental Protection, National Research Foundation, Chinese academy of sciences, as well as some international cooperation projects. He has published the certain amount of new species in the field of bacterial taxonomy and more than 50 SCI journals.