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This Book of Abstracts is the main publication of the 69th Annual Meeting of the European Federation of Animal Science (EAAP). It contains abstracts of the invited papers and contributed presentations of the sessions of EAAP's eleven Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems,

Insects and Precision Livestock Farming.

It is estimated that literally billions of residents in urban and peri-urban areas of Africa, Asia, and Latin America are served by onsite sanitation systems (e.g. various types of latrines and septic tanks). Until recently, the management of faecal sludge from these onsite systems has been grossly neglected, partially as a result of them being considered temporary solutions until sewer-based systems could be implemented. However, the perception of onsite or decentralized sanitation technologies for urban

areas is gradually changing, and is increasingly being considered as long-term, sustainable options in urban areas, especially in low- and middle-income countries that lack sewer infrastructures. This is the first book dedicated to faecal sludge management. It compiles the current state of knowledge of the rapidly evolving field of faecal sludge management, and presents an integrated approach that includes technology, management, and planning based on Sandecs 20 years of experience in the field. Faecal Sludge Management: Systems Approach

for Implementation and Operation addresses the organization of the entire faecal sludge management service chain, from the collection and transport of sludge, and the current state of knowledge of treatment options, to the final end use or disposal of treated sludge. The book also presents important factors to consider when evaluating and upscaling new treatment technology options. The book is designed for undergraduate and graduate students, and engineers and practitioners in the field who have some basic knowledge of environmental and/or

wastewater engineering.

At the moment of writing, we are in the last quarter of an incredible year. The world is facing an astonishing number of changes resulting from one of the worst pandemics ever. Food, agribusiness, and biofuel chains will be working in a new macro environment and will operate differently after 2020. These structural changes come on top of the need to increase food production to feed 9 billion people in 2050 and the urgency to increase renewable sources of energy to promote sustainability, save resources

and limit climate change. 'Food and Agribusiness in 2030: A Roadmap' offers tools for understanding this new macro environment and helps to position food chains. It helps companies to take advantage of opportunities. The tools relate to strategic planning of food chains in the new scenario, understanding what will happen with chain participants, where markets will grow, how consumers will behave, how sustainability will gain importance, and how cooperatives, associations and other forms of collective actions will gather force. The goal of

this book is to offer something very practical so that companies and other public or private organisations can read a chapter and start discussing what they should do next and take a look at their roadmap. Good luck with your planning process.

Policy and performance

Logarithmic Tables

The Commercial & Financial Chronicle ...

***Stavanger, Norway, 29 August - 2 September
2011***

Book of Abstracts of the 62nd Annual Meeting of

***the European Association for Animal Production
Review of Civil Litigation Costs***

The biotechnology/biopharmaceutical sector has tremendously grown which led to the invention of engineered antibodies such as Antibody Drug Conjugates (ADCs), Bispecific T-cell engager (BITES), Dual Variable Domain (DVD) antibodies, and fusion proteins that are currently being used as therapeutic agents for immunology, oncology and other disease conditions. Regulatory agencies have raised the bar for the development and manufacture of antibody-based products, expecting to see the use of Quality by Design

(QbD) elements demonstrating an in-depth understanding of product and process based on sound science. Drug delivery systems have become an increasingly important part of the therapy and most biopharmaceuticals for self-administration are being marketed as combination products. A survey of the market indicates that there is a strong need for a new book that will provide “one stop shopping” for the latest information and knowledge of the scientific and engineering advances made over the last few years in the area of biopharmaceutical product development. The new book entitled Development of Biopharmaceutical Drug Device Products is a reference

text for scientists and engineers in the biopharmaceutical industry, academia or regulatory agencies. With insightful chapters from experts in the field, this new book reviews first principles, covers recent technological advancements and provides case studies and regulatory strategies relating to the development and manufacture of antibody-based products. It covers topics such as the importance of early preformulation studies during drug discovery to influence molecular selection for development, formulation strategies for new modalities, and the analytical techniques used to characterize them. It also addresses important considerations for later stage

development such as the development of robust formulations and processes, including process engineering and modeling of manufacturing unit operations, the design of analytical comparability studies, and characterization of primary containers (pre-filled syringes and vials). Finally, the latter half of the book reviews key considerations to ensure the development and approval of a patient-centered delivery system design. This involves the evolving regulatory framework with perspectives from both the US and EU industry experts, the role of international standards, design control/risk management, human factors and its importance in the product development and

regulatory approval process, as well as review of the risk-based approach to bridging between devices used in clinical trials and the to-be-marketed device. Finally, case studies are provided throughout. The typical readership would have biology and/or engineering degrees and would include researchers, scientific leaders, industry specialists and technology developers working in the biopharmaceutical field.

Need to Learn MATLAB? Problem SOLVED! Get started using MATLAB right away with help from this hands-on guide. MATLAB Demystified offers an effective and enlightening method for learning how to get the most out

this powerful computational mathematics tool. Using an easy-to-follow format, this book explains the basics of MATLAB up front. You'll find out how to plot functions, solve algebraic equations, and compute integrals. You'll also learn how to solve differential equations, generate numerical solutions of ODEs, and work with special functions. Packed with hundreds of sample equations and explained solutions, and featuring end-of-chapter quizzes and a final exam, this book will teach you MATLAB essentials in no time at all. This self-teaching guide offers:

The quickest way to get up and running on MATLAB
Hundreds of worked examples with solutions
Coverage of

MATLAB 7 A quiz at the end of each chapter to reinforce learning and pinpoint weaknesses A final exam at the end of the book A time-saving approach to performing better on homework or on the job Simple enough for a beginner, but challenging enough for an advanced user, MATLAB Demystified is your shortcut to computational precision. Comprehensive and practical guide to the selection and design of a wide range of chemical process equipment. Emphasis is placed on real-world process design and performance of equipment. Provides examples of successful applications, with numerous drawings, graphs, and tables to show the functioning and performance of the

equipment. Equipment rating forms and manufacturers' questionnaires are collected to illustrate the data essential to process design. Includes a chapter on equipment cost and addresses economic concerns. * Practical guide to the selection and design of a wide range of chemical process equipment. Examples of successful, real-world applications are provided. * Fully revised and updated with valuable shortcut methods, rules of thumb, and equipment rating forms and manufacturers' questionnaires have been collected to demonstrate the design process. Many line drawings, graphs, and tables illustrate performance data. * Chapter 19 has been expanded to

cover new information on membrane separation.

Approximately 100 worked examples are included. End of chapter references also are provided.

Fluorine Chemistry

Forages and grazing in horse nutrition

Survey of Current Business

United States Civil Aircraft Register

Dubrovnik, Croatia, 27-31 August 2018

Chemical Process Equipment

Edible insects have always been a part of human diets, but in some societies there remains a degree of disdain and disgust for their consumption. Insects

offer a significant opportunity to merge traditional knowledge and modern science to improve human food security worldwide. This publication describes the contribution of insects to food security and examines future prospects for raising insects at a commercial scale to improve food and feed production, diversify diets, and support livelihoods in both developing and developed countries. Edible insects are a promising alternative to the conventional production of meat, either for direct human consumption or for indirect use as feedstock. This publication will boost awareness of the many valuable roles that insects play in sustaining nature and human life, and it will stimulate debate on the

expansion of the use of insects as food and feed. The water sector reform in Malaysia, initiated in 2004, intended to improve the efficiency and effectiveness of the water sector in the long term. This book explains the overall policy process of the reform and assesses the extent to which the reform has met its objectives and the means through which it has done so. The conclusions point to a weak correlation between the reform outputs on the one hand and the operational efficiency and environmental effectiveness gains of water utilities on the other. They also offer valuable insights into the policy arrangement that successfully shaped the water reform process. The policy process of the

Malaysian water sector reform reflects the current global trend towards centralizing water management within the public domain with a clear division of tasks between policy formulation, regulatory oversight and service provision. Federal and state actors have become the dominant players in the water sector. This has reduced the role of private water utilities to a small fraction of activities within the entire value chain of water, and strengthens close regulation oversight from the regulator. Lastly, civil society groups now have a growing (albeit still small) influence on the water sector. In terms of policy recommendations, this book reiterates the need to adopt a private sector culture in managing public

water; to establish a clear division of tasks between policy formulation, regulation and service provision; and to facilitate wider public engagement as well as to promote better informational governance in the water sector, including the call for a national water data bank.

Lord Justice Jackson was required: to review the rules and principles governing the costs of civil litigation and to make recommendations in order to promote access to justice at proportionate cost; to review case management procedures; to have regard to research into costs and funding; to consult widely; to compare our costs regime with those of other jurisdictions; and to prepare a report setting out recommendations

with supporting evidence by 31st December 2009. A preliminary report was issued in May 2009 and is also published alongside this final report (ISBN 9780117064034). Major recommendations cover: conditional fee agreements, of which "no win, no fee" agreements are the most common species, and which have been the major contributor to disproportionate costs; success fees and ATE (after-the-event) insurance premiums should cease to be recoverable from unsuccessful opponents in civil litigation; success fees should come out of the damages awarded to the client; awards of general damages should be increased by 10 per cent, and the maximum amount of damages that lawyers may deduct for

success fees be capped at 25 per cent of damages; lawyers should not be permitted to pay referral fees in respect of personal injury cases; qualified one way costs shifting, taking away the need for ATE insurance; fixed costs in fast track litigation; establishment of a Costs Council. Other sections of the report deal with: other funding issues; personal injuries litigation; some specific types of litigation; and controlling the costs - including pre-action protocols, greater use of alternative dispute resolution (ADR), disclosure, case and costs management by the judiciary.

Selection and Design

Final Report

Book of Abstracts of the 69th Annual Meeting of the European Federation of Animal Science

Code of Federal Regulations

Development of Biopharmaceutical Drug-Device Products

Microscale Acoustofluidics

The Special Issue “Extractable and Non-Extractable Antioxidants” gives an updated view on antioxidants—both in their extractable and non-extractable form—in the different food groups, their products thereof, and food preparations as well as byproducts and biomass waste. The potential beneficial properties of these compounds and nutraceutical formulations are described in the various studies covered in

this Special Issue.

Forages should be the basis of all diets in horse feeding. Therefore it is of major importance to determine which parameters will influence their quality. Changes on chemical composition along the vegetative cycle, nutrient losses during harvesting, preservation and storage are factors that could have an effect on nutritive value, as well on digestibility and palatability. A specific grazing and ingesting behaviour, linked to plant preferences and the selection of feeding sites will have an impact on biodiversity. This will determine the options on plant species and varieties and further management of pastures for horses. This book highlights the role of forages and grazing in horse nutrition and also

gathers information about related topics, such as the contribution of local breeds for the sustainability and development of rural areas, their impact on landscape and relationships with environmental preservation. This book is the 6th volume in a scientific series conceived through the European Workshop on Equine Nutrition (EWEN) which falls under the umbrella of the Horse Commission of the European Federation of Animal Science (EAAP). All these materials provide an interesting basis for further discussion, not only in specialized forums, but also for those involved in horse production.

Special edition of the Federal Register, containing a codification of documents of general applicability and future

effect ... with ancillaries.

Global Investment Competitiveness Report 2019/2020

*Impacts of the Fukushima Nuclear Accident on Fish and
Fishing Grounds*

Climatological Data

Food and Agribusiness in 2030: a Roadmap

Catalogue

Iowa

Presents current statistical data on economic activity.

This book presents the results from the Japanese Fisheries Research Agency's 3-year intensive monitoring of radionuclides in a variety of fish, plankton, benthos, and

their living environments after the Fukushima Daiichi Nuclear Power Plant (FNPP) accident in March 2011. The book reveals the dynamics of contamination processes in marine and freshwater fish, mediated by the contamination of water, sediments, and food organisms; it also clarifies the mechanisms by which large variations in the level of contamination occurs among individual fish. Most importantly, the book includes a large amount of original measurement data collected in situ and for the first time assesses diffusion of radiocesium across the Pacific using both in situ data and a numerical simulation model. Also introduced are several new approaches to evaluate the

impact of the release of radionuclides, including the measurement of radiation emission from an otolith section to identify the main period of contamination in fish. The FNPP accident represents a rare instance where the environmental radioactivity level was elevated steeply through atmospheric fallout and direct discharge of radioactive water into the sea over a short period of time. Replete with precise scientific data, this book will serve as an important resource for research in fields such as fishery science, oceanography, ecology, and environmentology, and also as a solid basis for protecting fisheries from damage resulting from harmful rumors among the general

public.

Fluorine Chemistry, Volume V focuses on the compositions, reactions, properties, and functions of fluorine compounds. The book first discusses the general chemistry of fluorine compounds and the physical chemistry of fluorocarbons. Vapor pressures; details of interaction of polyatomic molecules; coefficients and equations of state for gases; liquid compressibility; and compressibilities of liquid mixtures are discussed. The text looks at the radiochemistry and radiation chemistry of fluorine. Isotopes of fluorine; useful methods for producing F18 and F20; radiochemical properties and

counting of F20; fluorine activities in nuclear reactors; and analytical determinations are described. The selection also provides numerical analysis and tabulated representations. The book also focuses on the industrial and utilitarian features of fluorine chemistry. Historical and economic factors; properties of fluorocarbons; refrigerants and propellants; gaseous dielectrics; fire extinguishing agents; and fluorocarbon surfactants are discussed. The text is a vital source of data for readers wanting to study fluorine compounds.

Wood Structural Design Data

Suspensions of Colloidal Particles and Aggregates

Future Prospects for Food and Feed Security

Daily Series, Synoptic Weather Maps

Handbook of hair in health and disease

Bradstreet's

This book addresses the properties of particles in colloidal suspensions. It has a focus on particle aggregates and the dependency of their physical behaviour on morphological parameters. For this purpose, relevant theories and methodological tools are reviewed and applied to selected examples. The book is divided into four main chapters. The first of them

introduces important measurement techniques for the determination of particle size and interfacial properties in colloidal suspensions. A further chapter is devoted to the physico-chemical properties of colloidal particles—highlighting the interfacial phenomena and the corresponding interactions between particles. The book's central chapter examines the structure-property relations of colloidal aggregates. This comprises concepts to quantify size and structure of aggregates, models and numerical tools for calculating the (light)

scattering and hydrodynamic properties of aggregates, and a discussion on van-der-Waals and double layer interactions between aggregates. It is illustrated how such knowledge may significantly enhance the characterisation of colloidal suspensions. The final part of the book refers to the information, ideas and concepts already presented in order to address technical aspects of the preparation of colloidal suspensions—in particular the performance of relevant dispersion techniques and the stability of colloidal suspensions.

The manipulation of cells and microparticles within microfluidic systems using external forces is valuable for many microscale analytical and bioanalytical applications. Acoustofluidics is the ultrasound-based external forcing of microparticles with microfluidic systems. It has gained much interest because it allows for the simple label-free separation of microparticles based on their mechanical properties without affecting the microparticles themselves. Microscale Acoustofluidics provides an introduction to the field providing the

background to the fundamental physics including chapters on governing equations in microfluidics and perturbation theory and ultrasound resonances, acoustic radiation force on small particles, continuum mechanics for ultrasonic particle manipulation, and piezoelectricity and application to the excitation of acoustic fields for ultrasonic particle manipulation. The book also provides information on the design and characterization of ultrasonic particle manipulation devices as well as applications in acoustic trapping and

immunoassays. Written by leading experts in the field, the book will appeal to postgraduate students and researchers interested in microfluidics and lab-on-a-chip applications. With nanotechnology being a relatively new field, the questions regarding safety and ethics are steadily increasing with the development of the research. This book aims to give an overview on the ethics associated with employing nanoscience for products with everyday applications. The risks as well as the regulations are discussed, and an outlook for the future of

nanoscience on a manufacturer's scale and for the society is provided. Handbook of Nanoethics is perfect for , academicians and scientist, as well as all other industry professionals and researchers. It is a good introduction for newcomers in the field who do not want to dive deep into the details but are eager to understand the ethical challenges and possible solution related to nanotechnology and ethics.

**The Good Life, Justice, and Global Stewardship
Systems Approach for Implementation and
Operation**

Malaysian water sector reform

Extractable and Non-Extractable Antioxidants

Fourteenth Census of the United States Taken in the Year 1920...[Reports]

Ethics of Consumption

The Global Investment Competitiveness Report 2019-2020 provides novel analytical insights, empirical evidence, and actionable recommendations for governments seeking to enhance investor confidence in times of uncertainty. The report's findings and policy recommendations are organized around "3 ICs"

- they provide guidance to governments on how to increase investments' contributions to their country's development, enhance investor confidence, and foster their economies' investment competitiveness. The report presents results of a new survey of more than 2,400 business executives representing FDI in 10 large developing countries: Brazil, China, India, Indonesia, Malaysia, Mexico, Nigeria, Thailand, Turkey, and Vietnam. The results show that over half of surveyed foreign businesses have already been adversely

affected by policy uncertainty, experiencing a decrease in employment, firm productivity, or investment. Foreign investors report that supporting political environments, stable macroeconomic conditions, and conducive regulatory regimes are their top three investment decision factors. Moreover, the report's new global database of regulatory risk shows that predictability and transparency increase investor confidence and FDI flows. The report also assesses the impact of FDI on poverty, inequality, employment, and firm

performance using evidence from various countries. It shows that FDI in developing countries yields benefits to their firms and citizens-including more and better-paid jobs-but governments need to be vigilant about possible adverse consequences on income distribution. The report is organized in 8 chapters: Chapter 1 presents the results of the foreign investor survey. Chapter 2 explores the differential performance and development impact of greenfield FDI, local firms acquired by multinational corporations {i.e. brownfield FDI),

and domestically-owned firms using evidence from six countries. Chapter 3 assesses the impact of FDI on poverty, inequality, employment and wages, using case study evidence from Ethiopia, Turkey and Vietnam. Chapter 4 presents a new framework to measure FDI regulatory risk that is linked to specific legal and regulatory measures. Chapter 5 focuses on factors for increasing the effectiveness of investment promotion agencies.

Hair is a major component of the body's tissue

system that contributes to the individual's make up and confers a large degree of personal identity. Apart from its visible façade, hair also has a functional role. It has a unique structure and complex molecular development. The very nature of hair makes it a suitable marker for the prognosis of disease. Hair can also be used to screen for toxins and changes in the diet. However, there are currently no suitable publications available that describe hair in a rational scientific context. This handbook provides an academic approach to hair in health

and disease. Divided into five sections the Handbook of Hair in Health and Disease provides an insight into hair growth and loss, molecular and cellular biology of hair, dietary toxicity and pathological history, diseases and treatments of hair, as well as shampoos and conditioners. Unique features of each chapter in this volume include relevant and useful 'Key facts' which highlight interesting or important findings of the specific subjects and 'Summary points' that will give a clear overview of the subjects treated in each chapter. The Handbook

of Hair in Health and Disease will be essential to a variety of users, such as trichologists, doctors and nurses and all those interested or working within the area of hair health. This includes nutritionists and dieticians, scientific beauticians, health workers and practitioners, college and university lecturers and undergraduate and graduate students.

In this comprehensive collection of essays, most of which appear for the first time, eminent scholars from many disciplines—philosophy, economics, sociology, political science,

demography, theology, history, and social psychology—examine the causes, nature, and consequences of present-day consumption patterns in the United States and throughout the world.

Commercial and Financial Chronicle

Handbook of Nanoethics

Edible Insects

A Weekly Newspaper Representing the
Industrial Interests of the United States

Climatological Data, Arizona

MATLAB Demystified

'Feed efficiency in swine' has been prepared as a comprehensive treatise on the current state of our understanding of this topic which is so important to the pork industry. Each chapter is written by international authorities who understand both the science and application of their topic area. The book provides detailed insight into the many factors affecting feed efficiency, ranging from diet processing to herd health, from nutrition to physiology and from day-to-day barn management to the adoption of advanced technologies. The authors explain such practical aspects as the challenge of interpreting feed efficiency information obtained on farm or the role of liquid feeding. The

authors also delve into more scientific topics such as amino acid or energy metabolism or animal physiology. This book is written for people who have a technical interest in pork production, including nutritionists, geneticists, farm management specialists, veterinarians, other academics and, of course, pork producers. This Book of Abstracts is the main publication of the 62nd Annual Meeting of the European Association for Animal Production (EAAP) held in Stavanger, Norway from 29 August - 2 September 2011. It contains abstracts of the invited papers and contributed presentations. The meeting addressed subjects relating to science and innovation. Also, important problems were

discussed during the sessions of EAAP's nine Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems. In addition joint sessions on topics interesting several disciplines and species were included in the programme.

Northern Hemisphere data tabulations

2000-

Feed efficiency in swine

Faecal Sludge Management

Containing Logarithms to Numbers from 1 to 120,000,

Numbers to Logarithms from $\cdot 0$ to $1 \cdot 00000$, to Seven

Places of Decimals : Tables with Centesimal and
Decimal Arguments for Finding Logarithms and
Antilogarithms as Far as Sixteen and Twenty-five Places
: Tables to Five Places for Finding the Logarithms of the
Sums and Differences of Antilogarithms : Also Tables for
Barometric and Thermometric Heights : Together with
Several Other Tables of Frequent Use
Analysis of Rates for Delhi, 2016