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Chemistry in Context-Albert

Truman Schwartz 1994

Following in the tradition of the first four editions, the goal of this market leading textbook, "Chemistry in Context," fifth edition, is to establish chemical principles on a need-to-know basis within a contextual framework of significant social, political, economic and ethical issues. The non traditional approach of

"Chemistry in Context" reflect today's technological issues and the chemistry principles imbedded within them. Global warming, alternate fuels, nutrition, and genetic engineering are examples of issues that are covered in CIC.

Chemistry in Context for Cambridge International

AS & A Level-Graham Hill

2017-03-09 The ever-popular Chemistry In Context

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resource has been updated by the experienced author team to provide chemistry students with a comprehensive and dependable textbook for their studies, regardless of syllabus. Mapped to the latest Cambridge AS & A Level Chemistry syllabus (9701), this text supports students with its stretching, problem-solving approach. It helps foster long-term performance in chemistry, as well as building students' confidence for their upcoming examinations. The practical approach helps to make chemistry meaningful and contextual, building foundations for further education.

Chemistry in Context-G. C. Hill 1983

**Laboratory Manual
Chemistry in Context**-
American Chemical Society
2014-01-08 This laboratory manual accompanies the eighth edition of Chemistry in Context: Applying Chemistry to Society. This manual provides laboratory

experiments that are relevant to science and technology issues, with hands-on experimentation and data collection. It contains 34 experiments to aid the understanding of the scientific method and the role that science plays in addressing societal issues. Experiments use microscale equipment (wellplates and Beral-type pipets) and common materials. Project-type and cooperative/collaborative laboratory experiments are included. With the movement towards sustainability and “green chemistry”, the investigations in this lab were developed to use minimally toxic reagents, and to use them in small quantities, where possible.

ISE Chemistry in Context-
American Chemical Society
2019-11-17

Chemistry-Thomas R. Gilbert
2012-07 All general chemistry students face similar challenges but they use their textbook to meet those challenges in different ways. Some read chapters from

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beginning to end, some consult the book as a reference, and some look to the book for problem-solving help. Chemistry: The Science in Context, Third Edition was written and designed to help every kind of student, regardless of how they use the book.

Chemistry in Context- 2009 Following in the tradition of the first five editions, the goal of this market leading textbook, Chemistry in Context, fifth edition, is to establish chemical principles on a need-to-know basis within a contextual framework of significant social, political, economic and ethical issues. The non traditional approach of Chemistry in Context reflect today's technological issues and the chemistry principles imbedded within them. Global warming, alternate fuels, nutrition, and genetic engineering are examples of issues that are covered in CIC.

Chemistry in Context with

Student Online Learning Center Password Card-

American Chemical Society 2000-06-01 Aimed at the non-science major, this text teaches chemical principles within a contextual framework. Students see and associate with how chemistry impacts their lives personally and globally. With the Chemistry in Context need-to-know approach, students directly link the chemical principles being established to the context of the problem at hand.

Organic Chemistry Principles in Context-Mark M. Green 2012-10-01 "Organic Chemistry Principles in Context: A Story Telling Historical Approach" takes a path that is a radical departure from the way all other textbooks of this subject are written. The principles of organic chemistry are discovered by investigation of the complex phenomena that arise from application of these principles, crossing the spectrum from the academic to the biological to the industrial. All the fundamental

principles of organic chemistry normally presented in an undergraduate one year organic chemistry course are found in this book in the context of the stories and the people involved in their discovery. The students who have used this book have found it to be an attractive and effective method of learning organic chemistry. The teachers of the subject have found that the book enhances their own appreciation and love of the subject. The author of the book, Professor Mark M. Green, has organized a free access web site with a link to the answers to all of the problems at the end of every section of the book. In addition this web site, OrganicChemistryPrinciplesinContext.com, has links to explanatory video lectures made by Professor Green for each of the book's twelve chapters.

Chemistry in Context-
Conrad L. Stanitski 2003 The definitive text and on-line learning combination for the non-majors chemistry course. Over 500 schools throughout

the country have adopted Chemistry in Context in its first three editions.

Chemistry in Context-
Bradley D. Fahlman 2018

Chemistry in Context-
American Chemical Society 2014-03-01 Following in the tradition of the first seven editions, the goal of this successful, issues-based textbook, Chemistry in Context, is to establish chemical principles on a need-to-know basis for non-science majors, enabling them to learn chemistry in the context of their own lives and significant issues facing science and the world. The non-traditional approach of Chemistry in Context reflects today's technological issues and the chemistry principles within them. Global warming, alternate fuels, nutrition, and genetic engineering are examples of issues that are covered in Chemistry in Context.

Chemistry in Context-

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Graham C. Hill 1995

Chemistry-Edward J. Neth
2016-06-07 "Chemistry:
Atoms First is a peer-
reviewed, openly licensed
introductory textbook
produced through a
collaborative publishing
partnership between
OpenStax and the University
of Connecticut and UConn
Undergraduate Student
Government Association. This
title is an adaptation of the
OpenStax Chemistry text and
covers scope and sequence
requirements of the two-
semester general chemistry
course. Reordered to fit an
atoms first approach, this title
introduces atomic and
molecular structure much
earlier than the traditional
approach, delaying the
introduction of more abstract
material so students have
time to acclimate to the study
of chemistry. Chemistry:
Atoms First also provides a
basis for understanding the
application of quantitative
principles to the chemistry
that underlies the entire
course."--Open Textbook
Library.

Encyclopedia of Food Chemistry- 2018-11-22

Encyclopedia of Food
Chemistry is the ideal primer
for food scientists,
researchers, students and
young professionals who want
to acquaint themselves with
food chemistry. Well-
organized, clearly written,
and abundantly referenced,
the book provides a
foundation for readers to
understand the principles,
concepts, and techniques
used in food chemistry
applications. Articles are
written by international
experts and cover a wide
range of topics, including food
chemistry, food components
and their interactions,
properties (flavor, aroma,
texture) the structure of food,
functional foods, processing,
storage, nanoparticles for
food use, antioxidants, the
Maillard and Strecker
reactions, process derived
contaminants, and the
detection of economically-
motivated food adulteration.
The encyclopedia will provide
readers with an introduction
to specific topics within the
wider context of food
chemistry, as well as helping

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them identify the links between the various sub-topics. Offers readers a comprehensive understanding of food chemistry and the various connections between the sub-topics Provides an authoritative introduction for non-specialists and readers from undergraduate levels and upwards Meticulously organized, with articles structured logically based on the various elements of food chemistry

Chemistry in Context-Lucy T. Eubanks 2006

Chemistry in the Community (Enhanced Core Four)-American Chemical Society 2006-02-15

Laboratory Manual to Accompany Chemistry in Context-American Chemical Society 2005-02 The 5th edition Laboratory Manual that accompanies Chemistry in Context is compiled and edited by Gail Steehler (Roanoke College). The experiments use microscale

equipment (wellplates and Beral-type pipets) as well as common materials. Project-type and cooperative/collaborative laboratory experiments are included. Additional experiments are available on the Online Learning Center, as is the instructor's guide.

A Mole of Chemistry-Caroline Desgranges 2020-03-03 A Mole of Chemistry: An Historical and Conceptual Approach to Fundamental Ideas in Chemistry is intended for students in their undergraduate years who need to learn the basics of chemistry, including science and engineering as well as humanities. This is a companion textbook which provides a unique perspective on how the main scientific concepts describing nature were discovered and, eventually, how modern chemistry was born. The book makes use of context found in history, philosophy and the arts to better understand their developments, and with as few mathematical equations as possible. The

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focus is then set on scientific reasoning, making this book a great companion and addition to traditional chemistry textbooks. Features: A companion for a general chemistry textbook and provides an historical approach to fundamental chemistry Presents origins of fundamental ideas in chemical science and the focus is then set on scientific reasoning User friendly and with as few mathematical equations as possible About the Authors: Dr. Caroline Desgranges earned a DEA in Physics in 2005 at the University Paul Sabatier - Toulouse III (France) and a PhD in Chemical Engineering at the University of South Carolina (USA) in 2008. Dr. Jerome Delhommelle earned his PhD in Chemistry at the University of Paris XI-Orsay (France) in 2000. He is currently working as an Associate Professor in Chemistry at the University of North Dakota.

Teachers Creating Context-Based Learning Environments in Science-R.
Taconis 2016-10-26 "Context-

based science education has led to the transformation of science education in countries all over the world, with changes also visible in learning environments and how these are being shaped. These changes involve authentic problems on research and design, new types of interactions within communities of practice, new content areas and also new challenges for teachers in teaching, motivating, scaffolding and assessing their students, among other things. This book focuses on context-based science education and its resulting changes in the perspective of research on learning environments. It also focuses on the implications for the teachers and the professional development of their competencies and beliefs. The book consists of eleven chapters by experts in various themes surrounding learning environments research and science education, preceded by and concluded with a chapter with reflections on context-based learning environments in science by the editors of this book. The conclusion they draw is that

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professional development of science teachers may be the most important and the most difficult part of the process of teachers creating context-based learning environments in science, as is the focus in the title of this book."

Chemistry Connections-

Kerry K. Karukstis 2003 This book provides a fascinating array of examples of chemistry at work, spanning topics from the aurora, to medicine, to sticky notes. The explanations begin with the basics, followed by more detailed analyses that show why it is interesting, fun, and useful to learn the underlying chemical principles. This much-enjoyed book, now fully revised and expanded, illustrates how chemistry governs much of our everyday experience and interaction with the world around us. -- from Back Cover.

Chemistry in Context- 2012

LABORATORY MANUAL FOR CHEMISTRY IN

CONTEXT-American Chemical Society 2017-05-02 This laboratory manual accompanies the ninth edition of Chemistry in Context: Applying Chemistry to Society. This manual provides laboratory experiments that are relevant to science and technology issues, with hands-on experimentation and data collection. It contains 40 experiments to aid the understanding of the scientific method and the role that science plays in addressing societal issues. Experiments use microscale equipment (wellplates and Beral-type pipets) and common materials. Project-type and cooperative/collaborative laboratory experiments are included. With the movement towards sustainability and "green chemistry", the investigations in this lab were developed to use minimally toxic reagents, and to use them in small quantities, where possible.

Chemistry Education-Javier García-Martínez 2015-02-17 Winner of the CHOICE Outstanding Academic Title 2017 Award This

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comprehensive collection of top-level contributions provides a thorough review of the vibrant field of chemistry education. Highly-experienced chemistry professors and education experts cover the latest developments in chemistry learning and teaching, as well as the pivotal role of chemistry for shaping a more sustainable future. Adopting a practice-oriented approach, the current challenges and opportunities posed by chemistry education are critically discussed, highlighting the pitfalls that can occur in teaching chemistry and how to circumvent them. The main topics discussed include best practices, project-based education, blended learning and the role of technology, including e-learning, and science visualization. Hands-on recommendations on how to optimally implement innovative strategies of teaching chemistry at university and high-school levels make this book an essential resource for anybody interested in either teaching or learning chemistry more effectively,

from experience chemistry professors to secondary school teachers, from educators with no formal training in didactics to frustrated chemistry students.

The Organic Chemistry of Drug Design and Drug

Action-Richard B. Silverman

2012-12-02 This is a new approach to the teaching of medicinal chemistry. The knowledge of the physical organic chemical basis of drug design and drug action allows the reader to extrapolate to the many related classes of drugs described in standard medicinal chemistry texts. Students gain a solid foundation to base future research endeavors upon: drugs not yet developed are thus covered! n Emphasizes the use of the principles of physical organic chemistry as a basis for drug design n Discusses organic reaction mechanisms of clinically important drugs with mechanistic schemes n Uses figures and literature references extensively throughout n This text is not

merely a "compilation of drugs and uses," but features selected drugs as examples of the organic chemical basis for any and all drug design applications

Pharmacology for Chemists-Raymond Hill
2017-10-30

The Chemistry of Mind-altering Drugs-Daniel M. Perrine 1996 This fascinating book presents a scientifically objective, and thoroughly documented exposition of the pharmacological and psychological effects of nearly every known substance that affects human consciousness, from alcohol to Zopiclone. It also features first-hand accounts and descriptions of the social, cultural, and religious milieus in which many psychotropic plants are used, and discusses historical allusions to many literary and scientific figures who used or wrote of mind-altering drugs, including Freud, Dickens, Yeats, and Huxley. Intended for a wide audience of general readers seeking unbiased

information, the book gives an accessible explanation of drug-receptor interaction and organic chemical structures, as well as descriptions of the discovery, isolation, and syntheses of the chemical substances responsible for drug activity. Written by an experienced chemist, the book nevertheless keeps technical information to a minimum.

Chemical Education: Towards Research-based Practice-J.K. Gilbert
2003-01-31 Chemical education is essential to everybody because it deals with ideas that play major roles in personal, social and economic decisions. This text covers the relation between chemistry and chemical education and teaching and learning about chemical compounds and chemical change.

The Analytical Chemistry of Cannabis-Brian F Thomas
2015-12-01 A volume in the Emerging Issues in Analytical Chemistry series, The Analytical Chemistry of

Cannabis: Quality Assessment, Assurance, and Regulation of Medicinal Marijuana and Cannabinoid Preparations provides analytical chemistry methods that address the latest issues surrounding cannabis-based products. The plethora of marketed strains of cannabis and cannabinoid-containing products, combined with the lack of industry standards and labelling requirements, adds to the general perception of poor quality control and limited product oversight. The methods described in this leading-edge volume help to support the manufacturing, labelling, and distribution of safe and consistent products with known chemical content and demonstrated performance characteristics. It treats analytical chemistry within the context of the diverse issues surrounding medicinal and recreational cannabis in a manner designed to foster understanding and rational perspective in non-scientist stakeholders as well as scientists who are concerned with bringing a necessary degree of order to a field now characterized by confusion

and contradiction. The Emerging Issues in Analytical Chemistry series is published in partnership with RTI International and edited by Brian F. Thomas. Please be sure to check out our other featured volumes: Hackney, Anthony C. Exercise, Sport, and Bioanalytical Chemistry: Principles and Practice, 9780128092064, March 2016. Tanna, Sangeeta and Lawson, Graham. Analytical Chemistry for Assessing Medication Adherence, 9780128054635, April 2016. Rao, Vikram, Knight, Rob, and Stoner, Brian. Sustainable Shale Oil and Gas: Analytical Chemistry, Biochemistry, and Geochemistry Methods, 9780128103890, forthcoming September 2016. Farsalinos, Konstantinos, et al. Analytical Assessment of e-Cigarettes: From Contents to Chemical and Particle Exposure Profiles, 9780128112410, forthcoming November 2016. Addresses current and emerging analytical chemistry methods—an approach that is unique among the literature on this topic Presents information from a broad perspective of the issues in a single compact volume

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Employs language comprehensible to non-technical stakeholders as well as to specialists in analytical chemistry

Chemical Calculations-Paul Yates 2007-02-27 Many undergraduate students enter into chemistry courses from a wide range of backgrounds, often possessing various levels of experience with the mathematical concepts necessary for carrying out practical calculations in chemistry. *Chemical Calculations: Mathematics for Chemistry, Second Edition* provides a unified, student-friendly reference of mathematical concepts and techniques incorporated into the context of familiar chemical topics. Uniquely organized by chemical—rather than mathematical—topics, this book relates each mathematical technique to the chemical concepts where it applies. The new edition features additional, revised, and updated material in every chapter. It achieves greater clarity with newly improved organization of topics and

cross-referencing where mathematical techniques occur more than once. The text also contains numerous worked examples along with end-of-chapter exercises and detailed solution—giving students the opportunity to apply previously introduced techniques to chemically related problems. An ideal course companion for chemistry courses throughout the length of a degree, the second edition of *Chemical Calculations: Mathematics for Chemistry* may also extend its utility as a concise and practical reference for professionals in a wide array of scientific disciplines involving chemistry.

Introduction to Contextual Maths in Chemistry

-Fiona Dickinson 2021-01-14
CHEMISTRY STUDENT GUIDES. GUIDED BY STUDENTS For any student who has ever struggled with a mathematical understanding of chemistry, this book is for you. Mathematics is the essential tool for physical scientists. We know that confidence in using mathematics early on in a

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chemistry degree builds a solid foundation for further study. However, applying the abstract mathematics taught in schools to chemical phenomena is one of the biggest challenges that chemistry students face. In this book, we take a 'chemistry-first' approach. We link the mathematics to recognisable chemical concepts, building on high school chemistry, to facilitate deeper understanding. We cover the practical mathematical skills, including representation of data as tables and graphs, and give an overview of error handling in the physical sciences. More advanced mathematical concepts are introduced, using calculus to determine kinetic rate laws, intermolecular forces and in quantifying energetic change in thermodynamics. We also introduce the concept of the complex number and its role in considering quantum wave functions, widely used in computational chemistry. There are worked examples and problem sets to provide plenty of practise material to build proficiency. We also include insights from real

students, which identify common problem areas and provide the prompts that helped them to overcome these. Chemistry Student Guides are written with current students involved at every stage, guiding the books towards the most challenging aspects of the topic.

Betaine-Victor Preedy
2015-05-28 Betaine is widely distributed in plants and animals and has a role as an osmolyte and as a cofactor in methylation in liver metabolism. It has been shown to protect internal organs, improve vascular risk factors and enhance performance. The growing body of evidence shows that betaine is an important nutrient for the prevention of chronic disease. This volume surveys the current state of play in these and other areas of interest, including its role in one-carbon metabolism, tissue biochemistry and interactions with folate and other biomolecules. The analysis of betaines using different techniques is covered, as is the function and effects in the body.

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Written by an expert international team, this book provides a fascinating insight for those with an interest in the effects of betaine on health and the diet. It appeals across disciplines but specifically to nutritional and food scientists, health professionals and researchers.

Chemistry of

Nanomaterials-Tahir Iqbal Awan 2020-05-16 Chemistry of Nanomaterials: Fundamentals and Applications provides a foundational introduction to this chemistry. Beginning with an introduction to the field of nanoscience and technology, the book goes on to outline a whole range of important effects, interactions and properties. Tools used to assess such properties are discussed, followed by chapters putting this fundamental knowledge in context by providing examples of nanomaterials and their applications in the real world. Drawing on the experience of its expert authors, this book is an accessible introduction to the interactions at play in nanomaterials for both upper-

level students and researchers. Highlights the foundational chemical interactions at play in nanomaterials Provides accessible insight for readers across multidisciplinary fields Places nanomaterial chemistry in the context of the broader field of nanoscale research

Real Chemistry

Experiments-Edward P. Zovinka 2019-12-10 Full STEAM ahead!-21st-century chemistry for kids Chemistry for kids can be so much fun! Real Chemistry Experiments has 40 exciting and engaging experiments with a real-life STEAM (Science, Technology, Engineering, Art, Math) connection for kids. Become a better problem-solver, inventor, and innovator with these fascinating chemistry experiments. Each one has a clear purpose or question that's being asked, step-by-step instructions, a list of materials you'll need, questions to help you record your observations, and more. By the time you're through, you'll have chemistry for kids down to a science! This book

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of chemistry for kids includes: Easy-to-find materials-From tap water and paper towels, to popsicle sticks and dish soap, the materials needed for these experiments are quick and easy to find. Real-life science-Learn the real chemistry behind how and why each experiment works, like why water and oil don't mix in Oily Oceans, how geodes form in Eggshell Geodes, and more. Chemistry basics-Get tons of info about chemistry and what it is, from the scientific method and the Periodic Table, to atoms and the five main areas of study. Imagine all the things you can learn, create, and discover in this colorful book about chemistry for kids-the sky's the limit!

Chemistry in Context-
1997-08-01

Clinical Chemistry-David White 2016-09-09 Clinical Chemistry is a comprehensive textbook covering the area of medical science variously known as chemical pathology, clinical chemistry, medical biochemistry and clinical

biochemistry. The biochemical processes and physiological interrelationships, of tissues, organs and molecules are discussed in the context of disease processes and related to the diagnosis, monitoring, and management of disease. Also included are analytical processes, such as immunoassay, and how these relate to clinical practice. Although the emphasis of this book is clinical biochemistry, some chapters include sections on haematology, radiology and microbiology where this helps in the understanding of disease processes. The increasing use of the techniques of molecular biology and genetics in the investigation of disease is acknowledged also by appropriate inclusion of these disciplines in a number of chapters. Standard International (SI) units of measurement are used throughout, but for tests where non-SI units are in common use as well as SI units both sets of units are quoted.

Computational Chemistry of Solid State Materials-

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Richard Dronskowski
2008-01-08 This is the first book to present both classical and quantum-chemical approaches to computational methods, incorporating the many new developments in this field from the last few years. Written especially for "non"-theoretical readers in a readily comprehensible and implemental style, it includes numerous practical examples of varying degrees of difficulty. Similarly, the use of mathematical equations is reduced to a minimum, focusing only on those important for experimentalists. Backed by many extensive tables containing detailed data for direct use in the calculations, this is the ideal companion for all those wishing to improve their work in solid state research.

Engaging Learners with Chemistry-Ilka Parchmann

2020-07-31 Many projects in recent years have applied context-based learning and engagement tools to the fostering of long-term student engagement with chemistry. While empirical evidence

shows the positive effects of context-based learning approaches on students' interest, the long-term effects on student engagement have not been sufficiently highlighted up to now. Edited by respected chemistry education researchers, and with contributions from practitioners across the world, *Engaging Learners with Chemistry* sets out the approaches that have been successfully tested and implemented according to different criteria, including informative, interactive, and participatory engagement, while also considering citizenship and career perspectives. Bringing together the latest research in one volume, this book will be useful for chemistry teachers, researchers in chemistry education and professionals in the chemical industry seeking to attract students to careers in the chemical sector.

The Chemistry of Soils-

Garrison Sposito 2008-04-30 There have been many advances in soil chemistry since Oxford published the first edition of *The Chemistry*

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of Soils in 1989. The physical-chemistry approach to soil chemistry taken in the book, groundbreaking for its time, has been adopted by nearly every soil chemistry book published since. This book offers a thorough update of all topics covered in the previous edition. In the last 16 years, soil chemistry as a discipline has assumed major significance in connection with global climate change. The 2nd edition addresses the emergent issue of global climate change by exploring the interaction between organic carbon and soil. The largest repository of organic carbon on earth is still soil, and the process by which organic carbon is sequestered by soil, thus preventing the release of carbon dioxide into the atmosphere, is one of the proper concerns of soil chemistry. Thus, the revision provides a rigorous discussion of soil chemistry in its broader environmental and biogeochemical contexts.

Business Chemistry-Kim Christfort 2018-05-22 A guide to putting cognitive diversity to work Ever wonder what it

is that makes two people click or clash? Or why some groups excel while others fumble? Or how you, as a leader, can make or break team potential? Business Chemistry holds the answers. Based on extensive research and analytics, plus years of proven success in the field, the Business Chemistry framework provides a simple yet powerful way to identify meaningful differences between people's working styles. Who seeks possibilities and who seeks stability? Who values challenge and who values connection? Business Chemistry will help you grasp where others are coming from, appreciate the value they bring, and determine what they need in order to excel. It offers practical ways to be more effective as an individual and as a leader. Imagine you had a more in-depth understanding of yourself and why you thrive in some work environments and flounder in others. Suppose you had a clearer view on what to do about it so that you could always perform at your best. Imagine you had more insight into what makes people tick and what ticks

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them off, how some interactions unlock potential while others shut people down. Suppose you could gain people's trust, influence them, motivate them, and get the very most out of your work relationships. Imagine you knew how to create a work environment where all types of people excel, even if they have conflicting perspectives, preferences and needs. Suppose you could activate the potential benefits of

diversity on your teams and in your organizations, improving collaboration to achieve the group's collective potential. Business Chemistry offers all of this--you don't have to leave it up to chance, and you shouldn't. Let this book guide you in creating great chemistry!