

Number 04

WORLD of WIT

News from Wessex Institute of Technology and WIT Press



New Book Titles

Prigogine Award 2011

Restoring Meanders



“The World is WIT’s Oyster”

The world is shrinking and today recurrent themes concern the global village, the world as one’s oyster and the absence of last frontiers. All of these echo through global scientific and technical publishing where WIT Press has long been a key player and intends to continue this tradition well into the future.

Science and scientific research transcend geographical and political boundaries and our authors and editors constitute a truly international community where the global growth of tertiary education has resulted in a dramatic increase in the number of submissions from the Far East, the Middle East, Russia and Latin America. WIT Press has responded to these changes by ensuring that our books and journals are readily available in emerging markets and intensifying our activities in these markets.

Middle East: In addition to Iran where we have successfully displayed and sold our books at the Tehran International Book Fair for the last seven years, WIT Press has forged further links with distributors that will ensure that our books and journals get the necessary exposure at annual events such as the Cairo Book Fair and at smaller but equally important fairs held in the region.



India: Another continent where tertiary education is viewed as an essential component of progress and prosperity. To meet the almost insatiable demand we are rapidly growing our number of distributors who service the needs of the large university and research libraries.

Today there is increasing talk of the BRIC (Brazil, Russia, India and China) countries and we have already outlined our activities in India and China and of course, we will neither forget nor neglect Russia and Brazil or more exactly the whole of the Latin American sub-continent.

Although the emphasis tends predominantly to be on Brazil, Latin America as a whole is up and coming in science and technology and recently at the Guadalajara Book Fair we had the opportunity to ‘shop-window’ our titles and will go on to promote these through the region.

Russia: In Russia we are working with customers in Moscow and St Petersburg who import English language science and technology titles which shows great promise.



Throughout this ‘around-the-world-tour’ we have concentrated on our print books but globally there is a growing awareness that all WIT Press new titles (2007 copyright year onwards) are available as eBooks and the choice of format is up to the end-customer. Print or digital!



Far East: Attendance at the 2011 Kuala Lumpur International Book Fair attracted some one million visitors from Vietnam, Cambodia, Laos, Brunei, Hong Kong, Philippines, Indonesia, Korea and Singapore. In China we are not only selling but we are also collaborating closely with Science Press, Beijing, with the eventual intention of co-publishing some 36 titles in English for the international market.

A WORD FROM THE CHAIRMAN...

The academic and research communities are not immune to problems in the world economy, however Wessex Institute has fared well by taking advantage of new developments, particularly in publishing. Our Academic Publishing arm, WIT Press, has diversified and undertaken new marketing initiatives to meet the challenge of ubiquitous digital publishing. Digital distribution of all our output is steadily increasing, leading to an even wider dissemination of WIT Press publications, especially in emerging markets.

In addition, WIT Press has consolidated its series of journals with two new titles giving a wider coverage of WIT research and conferences. This will increase to six the number of journals edited by WIT.

We pride ourselves on the high quality of our products and marketing and on the degree to which we interact with our authors. We feel confident that WIT is now in a good position to publish a higher volume of material without losing the personal touch. I would like to invite our colleagues to consider our Academic press for publication of their research output.

Finally I would like to express our gratitude to all our friends and collaborators all over the world for their support of WIT Press.

PROFESSOR CARLOS A. BREBBIA



Conference Highlights

COMPRAIL 2010 Beijing, CHINA

The first Wessex conference to be held in China when the renowned Beijing Jiaotong University hosted, in September 2010, the 12th International Conference on Computer System Design and Operation in Railways and other Transit Systems. Reflecting new achievements and applications of advanced technologies in management, design and operation of passenger and freight transit systems, this conference turned out to be the most successful since the first which took place in 1987.



ECOSUD 2011 13-15 April, Alicante, SPAIN

The aim of this conference is to encourage and facilitate interdisciplinary communications between scientists, engineers, economists and professionals working in ecological systems and sustainable development. Furthermore, ECOSUD is a challenge for the creation of a new science in line with Progogine's statement that "at all levels we observe events associated with the emergence of novelties and narrative elements, which we may associate with the creative power of nature".

New Book Titles

Bridge Aeroelasticity: Sensitivity Analysis and Optimum Design

J.A. JURADO, S. HERNANDEZ, F. NIETO, A. MOSQUERA

Long span suspension and cable-stayed bridges are currently of great interest, a fact evidenced by the increasing numbers of bridges being built over bays, straits and estuaries. Aimed at bridge design engineers and researchers, this book collates cogently material that hitherto could only be found in technical magazines.

ISBN: 978-1-84564-056-9

eISBN: 978-1-84564-334-8

Price: £114.00

Computational Fluid Dynamics and Heat Transfer: Emerging Topics

Edited By: R.S. AMANO, B. SUNDEN

The main focus is to introduce computational methods for fluid flow and heat transfer to scientists and engineers who are engaged in developing and/or using computer codes. This state-of-the-art book contains 12 chapters written by eminent researchers in the field.

ISBN: 978-1-84564-144-3

eISBN: 978-1-84564-402-4

Price £195.00

Mechanics of Real Fluids

M. RAHMAN

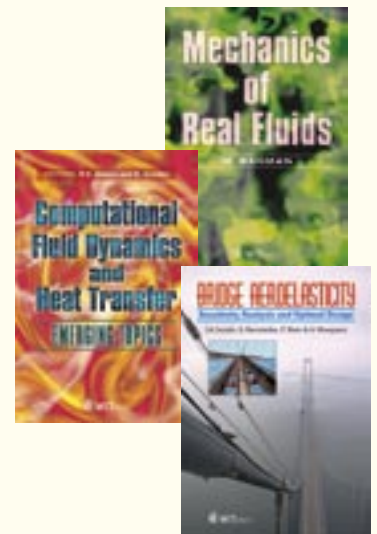
Fluid Mechanics is an important branch of applied mathematics and this book deals mainly with the motion of liquids in general and water in particular.

It explains theory clearly, giving applications, and is intended to provide background for graduate students, applied mathematicians and professional engineers.

ISBN: 978-1-84564-502-1

eISBN: 978-1-84564-503-8

Price: £97.00



Distributor's Corner

Yankee Book Peddler

Located in Contoocook NH, a village 70 miles north of Boston, YBP Library Services was founded in 1971 as Yankee Book Peddler, a bookseller to libraries. Over the years it has grown from a small one-room business to a global company of more than 300 employees that offers librarians and consortia the widest range of academic product offerings – in print and digital formats – of any scholarly bookseller, as well as value-added and customised services.

In 1999 Yankee Book Peddler was acquired by Baker & Taylor, a global information and entertainment services company, based in Charlotte NC. The company

had been in existence for more than 180 years developing long term relationships with major suppliers, including book publishers, and offering books to libraries, educational institutions and retailers.

The strategic partnership between these two companies was further endorsed and reinforced recently with the announcement that Baker & Taylor had acquired Blackwell Book Services North America and James Bennett, Blackwell's Australia-based bookseller. Although already WIT Press's largest global account it became overnight even more important. Nevertheless, the

relationship between WIT Press and YBP has remained based on personal attention, since YBP's proximity to our US office in Massachusetts has led us to regard them as next-door neighbours. It remains gratifying to see even more of our titles, both print and digital, reaching the academic and research worlds through Contoocook, facilitated by the activities of YBP's dedicated staff.



A History of Ottoman Architecture

By John Freely

Price: £97.00
ISBN: 978-1-84564-506-9
eISBN: 978-1-84564-507-6
Pages: 464
2011
Hardback

This is a study of the architecture produced under the Turkish Muslim state that supplanted the Greek Byzantine Empire in Anatolia and the Balkans at the end of the medieval era, continuing in existence into the first quarter of the twentieth century. Focussing on extant Ottoman buildings in the northwestern part of the Republic of Turkey, where the Ottomans had their origins, particularly in Bursa (Pursa) and Edirne (Adrianople), the empire's first two capitals and then going on to

Istanbul (Constantinople), the capital from 1453 to 1923.

The book begins with a short history of the Ottoman Empire, followed by an outline of the main features of Ottoman architecture and its decoration, principally the famous Iznik tiles. Additionally, there is a brief biography of the great Ottoman architect, Sinan, who constructed the most splendid of the mosque complexes that still adorn Istanbul and other cities of Turkey.

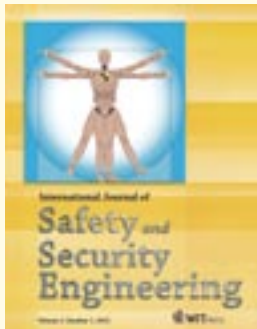
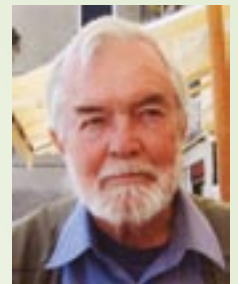
Author's Corner

John Freely

Born in Brooklyn, New York city into an Irish family, John Freely has lived in Istanbul since 1960 where he teaches astronomy and history of science in the Physics Department of Bogazici University.

A prolific author with more than 40 titles on popular travel and history books on Istanbul,

Athens, Venice, Turkey, Greece and the Ottoman Empire to his credit; his latest book, *A History of Ottoman Architecture*, is dedicated to Godfrey Goodwin, Aptullah Kuran and Hilary Sumner-Boyd whose seminal writings inspired him to undertake this study of Ottoman Architecture.



WIT Press and Cyberspace

WIT Press is proud to launch the International Journal of Safety and Security Engineering that provides a forum for papers on recent developments in both the

theoretical and the practical aspects of Safety and Security Engineering; an interdisciplinary area of research that brings together in a systematic way many disciplines of engineering, from the traditional to the most technologically advanced. The journal addresses areas such as crisis management; security engineering; natural disasters and emergencies; terrorism; man-made hazards; risk management; control protection and mitigation issues.

The launch of the Journal coincides with a growing threat that affects

our everyday lives as a result of the increasing risks associated with the security of the internet, and topics covering Homeland and IT Security are of growing importance not only because of cyber attacks that intrude on individuals' activities, but those more damaging that affect commerce and industry, and increasingly those that can cause damage and disruption to countries and their infrastructure through 'Cyberwarfare' for political, economic or military advantage. Such threats may include espionage and national security breaches, terrorism, sabotage and disruption

to telecommunications. Cyberspace is now recognized as the new domain in warfare and has become just as critical to military operations as land, sea, air and space.

The Journal aims to attract papers in all these related fields, as well as case studies describing practical experiences. The study of multifactor risk impact will be given special emphasis. Authors are encouraged to submit papers in all areas of Safety and Security, with particular attention to integrated and interdisciplinary aspects.

Prigogine Award 2011 Announced

The Prigogine Gold Medal 2011 Ceremony took place in April in Alicante, Spain. This prestigious event is sponsored by the University of Alicante on the occasion of the 8th International Conference on Ecosystems and Sustainable Development (ECOSUD).

The Prigogine Medal was established in 2004 by the University of Siena and the Wessex Institute of Technology to honour the memory of Professor Ilya Prigogine, Nobel Prize Winner for Chemistry.

The recipient of the 2011 Award was Professor Larissa Brizhik of the Bogolyubov Institute for Theoretical

Physics in the Ukraine where she is Head of the Department of Nonlinear Condensed Matter Physics. Larissa is also a member of the International Institute of Biophysics (Neuss, Germany). She studied Physics at Kiev State University before completing her Doctoral thesis at the Bogolyubov Institute. Her current research interests include electron-photon interactions, soliton mechanism for energy storage and influence of electromagnetic radiations on biological systems, amongst many others.

Larissa has published a substantial number of papers in leading scientific journals and has participated in many

conferences around the world. She is a member of several national and international associations.

Below: 2010 Prigogine Award Ceremony in the historic Town Hall of A Coruna, Spain



Professor Larissa Brizhik



Letter from America...

After triumphing over Mother Nature by keeping shipments moving in spite of a record-setting snowfall, and number of snowstorms, in January and February, the Boston office welcomes the return of the Swan Boats to the Public Garden. The Swan Boats are an even surer sign of spring in the area than opening day at Fenway Park for the Boston Red Sox baseball team. They run, in good weather only, from Patriots' Day weekend (perhaps better known outside Massachusetts as Boston Marathon weekend) in mid-April through mid-September.



WIT Press Boston Office

Boston's famous Swan Boats are a popular, and unique, way for people to enjoy the 24-acre Public Garden, a gem that is part of Frederick Law Olmstead's Emerald Necklace of parks that runs through the center of Boston. The Swan Boats were developed in the 1870s after Robert Paget obtained a license from the City of Boston for a boat-rental business. It had for some time been a favorite pastime of Boston's residents to row a boat on the Public Garden lagoon in the summer. In 1877, Mr Paget and others developed a catamaran-type boat driven by a foot-propelled paddle wheel. A pedal-powered boat made sense since bicycles were just beginning to become popular at the time. The Swan was added to the boat's design to provide cover for the boat's captain.



The first boats had a single seat and carried eight people. Today's boats, replicas of the originals, have five or six benches, are wheelchair-accessible, and can carry up to 20 people. The ride takes about 15 minutes. The business is still run by Robert Paget's family.

Restoring the New Forest's Meandering Streams

Visitors to the WIT Press offices at Ashurst Lodge last summer would have noticed signs of construction work on the open forest surrounding the Lodge. This was part of the 'Sustainable Wetland Restoration in the New Forest – LIFE 3' project.

Over the last 130 years or so, many new channels have been cut into the stream beds to straighten, deepen and widen them to speed up the flow of water downstream. This aimed to reduce flooding in order to provide better timber growing conditions and improve grazing for commoners' livestock. However, these changes resulted in continual erosion of the riverbeds, and the disappearance of important riverine and bog woodland habitats; habitats that are now rare in Britain and the rest of Europe.

Sarah Oakley, Ecologist for the Forestry Commission, gave an illustrated talk to the staff and students at Ashurst Lodge, followed by a tour of the next part of the stream to be restored. She showed how to identify the original meander of the stream and explained what was involved in returning it to its original course.



In order to transport infill material over a kilometre of sensitive habitat, contractors used a light railway track to minimise pressure on the ground.

Over six months on from the restoration work, the streams are now flowing and flooding along their original 'natural' course during our wet British winter.

Before Restoration



After Restoration



Local New Forest Recipe Goat's cheese and watercress quiche

For the pastry

- 225g plain flour, plus extra for rolling
- 100g butter
- 1 large egg, beaten, plus extra for brushing

For the filling

- 1 medium onion, finely chopped
- 1 tbsp oil
- 100g watercress, roughly chopped
- 2 large eggs
- 150ml milk
- 150ml log soft rindless goat's cheese, in rough chunks
- freshly grated nutmeg, optional

1. Put the flour and a pinch of salt in a large bowl. Rub in the butter until the mixture resembles breadcrumbs. Stir in the egg and about 1–2 tbsp water to form a soft dough. Knead well and then wrap and chill for at least 30 minutes.
2. Preheat the oven to 200°C/gas 6/fan 180°C. Roll out the pastry to line a 20cm loose-bottomed flan tin. Patch holes with spare pastry and brush the base and sides with beaten egg.
3. For the filling, fry the onion in the oil until just soft, add the watercress and cook until just wilted. Beat the eggs and milk stir in the watercress mixture and goat's cheese.
4. Season and add a pinch of nutmeg. Put the flan tin on a baking sheet and bake the pastry case for 5 minutes. Add the filling and bake for 15 minutes. Then reduce the heat to 180°C/gas 4/fan 160°C and cook for a further 25–30 minutes or until lightly set.

WIT FACT

Before the New Forest was created as William the Conquerors private hunting ground in 1079, it was known as the Great Ytene Forest. The word 'Ytene' means 'of the Jutes' and relates to the Jutes, who were one of the early Anglo-Saxon tribal groups who colonised this part of Southern Hampshire following the collapse of the Roman Empire.



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