

The Brit Oval

LONDON, 8 - 11 October 2007

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THE GLOBAL ENVIRONMENT

CIWEM'S 5TH ANNUAL CONFERENCE
2007

Global challenges, global solutions

The Global Environment 2007 is the only opportunity to engage with such a wide cross-section of those leading the debate on the key challenges of our time.

Offering three days with 42 sessions, this conference will enable you to:

- Discover the latest research, innovations and technology
- Share knowledge through debates, workshops and presentations
- Engage in cross sector dialogue with top-level practitioners
- Examine the relationship between the arts and the environment
- Meet the next generation of highly successful professionals
- Discuss the role faith has in the environmental agenda

"CIWEM conferences are always well organised, topical events which focus on the real issues in water and environmental management today. They provide a great opportunity to network with key decision makers and colleagues and provide an invaluable forum for discussing the key issues within our industry".

Sarah Budd, Business Group Director, Royal Haskoning

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CIWEM is an independent professional body and a registered charity, advancing the science and practice of water and environmental management for a clean, green and sustainable world.

Welcome to The Global Environment 2007

CIWEM believes that sustainable development should be achieved through innovation and knowledge sharing. To accomplish this, CIWEM provides a forum for debate through an extensive programme of influential conferences which allow delegates to socialise, share expertise and promote technical excellence.

This October CIWEM's annual conference, The Global Environment, comes to London for the first time. You will be able to engage with those who are leading and influencing the debate on the major challenges of our time.

The Global Environment will promote cross sector dialogue, integrating diverse audiences, encouraging collaborations and forging new relationships. By listening to presentations, debating, networking and taking part in interactive workshops, you will learn about the challenges the environment faces and some of the world-class innovative solutions being deployed. It will allow those who attend to anticipate future challenges and is an ideal opportunity to accelerate your own learning and receive accredited training for CPD.

I look forward to meeting, learning from and working with you.



Nick Reeves

Executive Director, The Chartered Institution of Water and Environmental Management

Who should attend?

The Global Environment conference is for anyone who wants to be part of the solution and help shape future policies.

"Anyone going to a CIWEM event can gain valuable exposure to new areas of knowledge and experience. CIWEM helps professionals make new connections across traditional divides".

Alan Woods, Consultant, New Game-Plan Ltd.



Book online at www.ciwem.org/events

Social Events

Explore CIWEM's heritage on Sunday 7 October

Attend a private visit hosted by the Crossness Engines Trust, winners of the Museums & Heritage Awards for Excellence in 2005. Sir Joseph Bazalgette built the Southern Outfall Works in 1865 using spectacular and ornate wrought and cast iron work, and housing the largest remaining rotative beam engines in the world. Tickets for the visit on the afternoon of Sunday 7 October include return coach travel from central London, admission and a guided tour of the Crossness Pumping Station.

Presidential Welcome Reception on Monday 8 October

Delegates are invited to attend The Global Environment's official opening party on Monday 8 October at 7pm. CIWEM President David Rooke will host the drinks reception at the cosmopolitan Millbank Lounge in our partner hotel, City Inn Westminster. The rich surroundings of this stylish cocktail bar make it the perfect backdrop to mix business and pleasure.

The Global Environment Dinner on Tuesday 9 October

Join us for our black-tie dinner aboard the 61 metre flagship of the Silver Fleet, the MV Silver Sturgeon. Our river trip starts at Millbank Millennium Pier, followed by a cruise past London's landmarks as we enjoy a champagne reception, exquisite food by "*rhubarb*" on the river and fine wines. Building on the success of CIWEM's Annual Dinner, The Global Environment Dinner offers a magnificent contemporary venue for a delightful evening.

Cricket coaching sessions on Wednesday 10 October

Hone your sporting skills by booking a late-afternoon cricket coaching session at Surrey County Cricket Club's Ken Barrington Cricket Centre at the Brit Oval. Two sessions have been organised, one for club cricketers and the other for beginners. Both sessions promise to be popular and places are limited.

Tour historic Westminster pubs on Wednesday 10 October

Nick Reeves, Executive Director of CIWEM, will be leading an evening tour of historic Westminster pubs. The City of Westminster is home to some of London's oldest pubs. Patronized by prominent politicians, artists, writers, scientists and other eminent people, the pub tour will visit the haunts that have inspired legendary figures for centuries.

For more information on any of these events, as well as self-guided tours and discounted entry to London venues, visit www.ciwem.org/events.



Book online at www.ciwem.org/events

Implications of Climate Change

Track **A**:

Experts predict that temperatures experienced during the summer 2003 European heatwave (that resulted in 35,000 deaths) will be 'normal' by 2040 and 'comparatively cool' by 2080. Climate change is clearly an enormous challenge; what are the implications going to be on different business sectors and elements of the environment? After two keynote speakers, each presentation will focus on a specific domain affected by climate change, outlining the risks, opportunities and potential conflicts.

Morning session 9:40 to 12:40

Chair: **Colin Challen MP**, Chair, UK All Party Parliamentary Climate Change Group

Keynote Speakers:

Sir John Harman (Environment Agency of England and Wales)

Colin Challen MP (UK All Party Parliamentary Climate Change Group);
Climate change and political log jams

Derrick Ryall (Met Office);

Latest climate change predictions and their uncertainties

Helen ApSimon (Imperial College London);

Climate change and air quality: synergies and conflicts

Tim Reeder (Environment Agency);

Climate change and flood risk management: perspectives from two global cities

Dave Hampton (Carbon Coach Ltd);

The implications of climate change on aspirational lifestyles - 'eco the rich'

Afternoon session 14:00 to 17:00

Chair: **Robert Runcie**, Regional Director, Environment Agency of England and Wales, Thames Region

Speakers:

Jane Milne (Association of British Insurers);

Implications of climate change for the insurance industry

Richard Cooper (Lloyds TSB Bank plc);

Climate change and banking

William Wilson (Burgess Salmon LLP, Cambrensis Ltd);

The legal implications of climate change

Peter Ede (Mott MacDonald);

Implications of climate change for water resources

Simon Bareham (Countryside Council for Wales);

Implications of climate change on biodiversity

Zoe Hutchison (Mouchel Parkman) and

John Dora (Network Rail);

Implications of climate change on rail infrastructure

Keynotes

Faiths, Culture and the Environment

Morning Track **B**:

9:40 to 12:40

This session will include presentations and a panel discussion, examining the role faith, culture and representative organisations and individuals have in the environmental agenda.

Chair: **Judy Ling Wong CBE**, Director, Black Environment Network

Speakers and panel members include:

Judy Ling Wong CBE (Black Environment Network);

Connecting with the local and global environment through engaging with British ethnic minorities

Andrew Pendleton (Christian Aid);

Changing the climate: Christian Aid's climate change campaign

David Shreeve (Archbishop's Council);

Shrinking the footprint

Rabbi Natan Levy (University Jewish Chaplaincy Board);

Environmental karma - a Jewish approach

Martin J. Hodson (Oxford Brookes University);

Human population, the environment and faith

Deepak Naik TBC (Minorities of Europe)

Masood Yousef TBC (WELCOME)

Muzammal Hussain TBC (London Islamic Network for the Environment)

Panel Discussion

Planning and Development in the Light of Climate Change

Afternoon Track **B**:

14:00 to 17:00

How can spatial planning, development and architecture contribute to climate change mitigation and adaptation at local, national and international scales?

Chair: **Jim Oatridge OBE**, Chair, CIWEM Cabinet

Speakers:

Peter Ellis (Communities and Local Government);

Planning policies for climate change

Claire Holman (Peter Brett Associates);

Code for sustainable homes

Robert Shaw (Town and Country Planning Association);

Climate change adaptation through planning and design

Chitra Nadarajah (Hampshire County Council);

European spatial planning: adapting to climate events

Alex Stephenson (Hydro International);

Complementary hard and soft SUDS - a case study

Jon McCue (Atkins);

How beach tourism needs to adapt to climate change - lessons from the Caribbean

Communicating Climate Change

Track C:

14:00 to 17:00

How can communication help us to tackle climate change? This interactive workshop will cover the basics of climate change communications. The focus will be how creative approaches can be used to change hearts and minds around green issues. Futerra has run this workshop for organisations as diverse as the BBC, the United Nations Environment Programme, Ben & Jerry's and Vodafone. Starting with a keynote presentation on the changing landscape for climate change communications, participants will go on to develop their own communications campaigns.

Facilitated by **Lucy Shea** (Futerra Sustainability Communications)

Workshop

Transition to a Low Carbon Economy

Track D:

14:00 to 17:00

How do we make the transition to a low carbon economy?

Looking at a range of low carbon technologies including renewables, energy from waste and clean coal technologies, presentations will assess what future these technologies have and whether their development is being hindered by current market conditions or government policies.

Chair: **Peter Jones OBE**, Director, Biffa

Speakers include:

Cllr Darren Johnson AM TBC (London Assembly)

Peter Jones OBE (Biffa);

Waste and the scrap carbon economy: an end of life perspective on the options

Ronald Tize (MWH);

Energy from waste: a commercial and carbon win-win

Jim Watson (University of Sussex);

Carbon capture and storage

Philip Wolfe (Renewable Energy Association);

The role of renewable energy in the transition to a low carbon economy

Peter Smith (Combined Heat and Power Association);

Combined heat and power

Urbanisation and the Environment

Track E:

14:00 to 17:00

The global urban population has quadrupled since 1950. By 2030, 60 percent of the global population is expected to live in cities. How can sustainability be incorporated into urban development projects?

Chair: **Mark Watts** TBC, Senior Policy Advisor for Transport, Air Quality and Energy, Greater London Authority

Speakers include:

Peter Head (Arup);

Dongtan eco city: a demonstrator for a 'new paradigm of urban development'

Rab Bennetts OBE (Bennetts Associates Architects);

Designing for sustainability

Kalanithy Vairavamoorthy (UNESCO-IHE Professor of Sustainability);

SWITCH: Changing the way we manage water in the city of the future

Elsie Owusu OBE (Feilden + Mawson LLP);

Urbanisation in Nigeria: the Lagos bus rapid transit system

Jon Pavey (Mott MacDonald);

Homo sapiens urbanicus...a threat to the UK's natural environment?

THE GLOBAL Environment Dinner

CIWEM's Global Environment Dinner takes place aboard the MV Silver Sturgeon, 'the ultimate venue on the River Thames.' Boarding at Millbank Millennium Pier, we will enjoy a champagne reception, dinner and fine wines during an evening cruise past the iconic sights of London between Westminster and Greenwich.

Tickets for this black-tie event are £90 + VAT. This is a spectacular venue at which to relax and entertain your guests. Both individual tickets and corporate tables are available.

"Thank you so much for a brilliant evening - stimulating company, delicious food and wines and of course an absolutely wonderful setting."

Michaela Crimmin, Head of Arts and Ecology, RSA

Arts and the Environment

Track A:

Explore the relationship between arts and the environment, examining how the arts contribute to a sustainable future and influence social and environmental justice.

Morning session 9:40 to 12:40

Chairs: **Vanessa Bone**, Partner, Creative Cultures and **Alan Cummings**, Pro Rector, Royal College of Art

Speakers:

Michaela Crimmin (RSA);

Arts and ecology: issues and activities from the RSA and Arts Council England partnership programme

Daro Montag (RANE, University College Falmouth);

This earth (knowing my place)

David Toop (Musician, writer and curator of sound);

Beyond the visual: inside and through sound

Peter Randall-Page;

Ugandan rock music gongs

Clive Adams (CCANW);

Nature and I are two: reconnecting people with the planet

Peter Brimblecombe (University of East Anglia);

Arts in the environmental sciences: an atmosphere in paintings

Eileen Woods (Gunpowder Park);

The landscape of change

Katy Hallett (Sustrans);

Art and the travelling landscape

Joel Parkes (Free Form);

Making artwork for the environment

Afternoon session 14:00 to 17:00

Chairs: **Francois Matarasso**, Chair of ACE East Midlands, Arts Council and **Tom Trevor**, Director, Arnolfini Gallery

Speakers:

Jane Atkinson (RANE, University College Falmouth);

Trace elements 4: mapping by water

David Haley (SEA, Manchester Metropolitan University);

A drop in the ocean: a trace of life

Andrej Zdravic;

Riverglass – A River Ballet in Four Seasons

Peter Fend;

Solutions to global warming, desertification, species loss and urban sprawl: architectural technologies to deploy

Newton Harrison (Global Warming Works);

Peninsula Europe and greenhouse Britain

James Marriot (Platform);

Water city - Carbon city: London's social and ecological impact

Panel members include:

Newton Harrison

Peter Fend

Trudie Entwistle

Chris Drury

Mark Fletcher (Arup)

Dusty Gedge (Living Roofs)

Panel Discussion

Integrated Environmental Management

Track B:

This session will explore the challenge of integrated environmental management and how multiple benefits can be attained in areas including water resources management, human health, biodiversity, land management, culture & heritage, and flood alleviation. As well as good practice case studies, consideration will be given to skill sets, models for integrated working and current weaknesses in the sector.

Morning session 9:40 to 12:40

Chair: **Ruth Allen**, Director of Water Operations, Mouchel Parkman

Speakers:

Peter von Lany (Halcrow);

Risk management in the water environment: floods, droughts and a changing climate

Alastair Moseley (WSP);

Surface water: flood risk or water resource opportunity lost?

Peter Allen-Williams (Environment Agency);

IWRM-NET: Integrated Water Resource Management research in Europe

Jan van Wonderen (Mott MacDonald);

Integrated Water Resources Management and preparedness for disasters: Global case studies

Martin McGrath (United Utilities);

United Utilities' Sustainable Catchment Management Programme (SCaMP) – a model for the future

Jonathan Reed (Atkins);

Sustainable water management - application to schools

Afternoon session 14:00 to 17:00

Chair: TBC

Speakers:

David Schofield (Arup) and **Alex Stephenson** (Hydro

International);

Engineering contemporary sustainable drainage: the role of proprietary systems

Liam Foster (Hyder Consulting);

Living (green) roofs: are we missing an opportunity to cool our cities and reduce flooding?

Janet Miller (Atkins);

Management plan to the Westminster World Heritage Site

Bob Ivison (Ivison Consulting);

Greenspace and sustainable park management

Ken McAnespie (KMC Consultancy);

Greenspace and the health agenda: selling the age-defying properties of parks and fresh air

Euan Hall (Land Restoration Trust);

Integrated land management

Dealing with Directives

Track **C**:

14:00 to 17:00

How do European environmental directives overlap and interact? This session considers a number of key directives, how one deals with directives that appear conflicting and how co-compliance can be achieved.

Chair: **Peter Matthews OBE**, Chairman, The Northern Ireland Authority for Utility Regulation

Speakers include:

Sarah Thomas (Pinsent Masons);

A legal perspective on the challenges of the Water Framework Directive

Karen Simpson (Mouchel Parkman);

Bite-sized approach to tackling the Water Framework Directive

Robert Schröder (Association of Dutch Water Boards/Association of Dutch Water Companies);

A European perspective on water and environment directives

Geoff Darch (Atkins);

Implications of climate change for the implementation of European water and environment directives

Duncan Huggett (Environment Agency);

Implementation and enforcement of European wildlife legislation through flood risk management

Megan Linwood (Environment Agency);

Greater Thames Coastal Habitat Management Plan - outcomes and application to the Thames Estuary 2100 project

A Sustainable Olympics?

Track **D**:

14:00 to 17:00

London 2012 aims to regenerate a significant area of east London and to be a low carbon, zero waste, 'One Planet' Olympics. This is a big challenge for what will be Europe's largest construction site and ultimately host to over 100,000 spectators, staff and competitors. How will these taxing aims be met, and are they realistic?

Speakers include:

David Stubbs (London Organising Committee of the Olympic Games);

London 2012 sustainability vision

Shaun McCarthy (Commission for a Sustainable London 2012);

Monitoring London's 2012 sustainability pledge

Rob McCarthy (Environment Agency);

The 2012 Olympics: modern regulation in practice

Richard Rutter (British Waterways);

Olympic Waterways: how British Waterways is contributing to a green games

Mark Bartlett (Cranfield University);

Soil carbon: the hidden environmental cost of the 2012 Olympics?

Dan Epstein TBC (Olympic Delivery Authority)

Next Generation

Track **E**:

14:00 to 17:00

This session is aimed at those who are relatively new to the environment sector, providing interactive information on skills development, opportunities to network with others new to the sector, information about overseas job prospects and the chance to hear about non traditional career paths to working in the sector. Presentations and a panel discussion will address what the global environment might look like in 2017, and examine what skills may be needed in the future.

Speakers and panel members include:

Bob Sargent (CIWEM Past President)

VSO representatives TBC

Keith Williams (Open University);

Progress to a sustainable career

David Haley (SEA, Manchester Metropolitan University)

Diana Bird (Wedge and Big Issue)

MWH Director TBC

Erika Yarrow (WEM)

RedR representative

Panel Discussion

Cricket coaching sessions

Sharpen your cricketing skills with coaching in the nets at the Ken Barrington Cricket Centre. We have taken advantage of the facilities at SCCC and arranged two sessions this afternoon. If you are a club cricketer, then bring your kit and enjoy a session in the nets with two of the KBCC coaches from 4 pm to 5 pm. From 5 pm to 6 pm, we have organised a beginners' fun session, for which no special kit is required other than a pair of trainers. Please book when registering (cost £10 + VAT per session) to reserve your place.

Tour of historic Westminster pubs

The City of Westminster boasts some of London's oldest and most historic public houses and hosteleries that are an important part of the city's heritage, and CIWEM's Executive Director, Nick Reeves, invites delegates to visit his selection. Frequented by some of our most renowned politicians, artists, writers, scientists and opinion formers, the pub tour will take in those venues that inspired the great, the good and the not so good. Oh yes, and there will be ample opportunity to sample some fine beers and wines!

Flood Risk Management

Track A:

The Flood Risk Management sessions comprise briefings on important new legislation and policy initiatives such as PPS25 and the EU Flooding Directive, as well as updates on how key tools such as mapping and modelling can be used more effectively to manage flood risk. The day ends with a variety of interesting and practical case studies including the Thames Estuary 2100 project.

Morning session 9:40 to 12:40

Chair: **David Rooke MBE**, Head of Flood Risk Management, Environment Agency

Speakers include:

Peter Bide (Communities and Local Government);
PPS25: planning to manage flood risk

David Balmforth (MWH);
Integrated approaches to flood risk management

Helen Samuels and **Paul Rayner** (Halcrow);
European Union Flood Risk Management Directive

Renuka Gunasekara (Royal Haskoning);
Planning development for sustainable flood management: case studies

Ronnie Falconer (Jacobs);
Pluvial and groundwater flooding - new approaches in flood warning and risk management

Afternoon session 14:00 to 17:00

Chair: **David Balmforth**, Senior Principal Engineer, MWH

Speakers include:

Jon Wicks (Halcrow);
Communicating uncertainty in flood maps - a practical approach

Sun Yan Evans (Mott MacDonald) and **Neil Gunn** (Environment Agency);
Flood risk management: how modelling techniques can help

Margaretta Ayoung (Atkins);
Integrated flood risk modelling using OpenMI

Nick Haigh (Environment Agency);
A Decision Support Framework for the TE2100 flood risk management strategy

Mike Cope (Halcrow);
Lower Thames: flood risk management in a highly developed, extensive and largely undefended flood plain

Ian Hodge (Environment Agency);
Cockshaw Burn - Sustainable flood risk reduction

A Sustainable Water Industry?

Track B:

What would a truly sustainable water industry look like and how would this be regulated? Radical and mainstream solutions will be examined, ending with an interactive discussion session.

Morning session 9:40 to 12:40

Chairs: **Ian Kirkaldy**, Director of Water Europe, Black & Veatch and **Charles Ainger**, Head of Sustainability, MWH

Speakers include:

Milo Purcell (Drinking Water Inspectorate);
How might a more sustainable water industry deliver public drinking water supplies?

Deryck Hall (Consumer Council for Water);
The customer perspective

Colin Cumming, **Charles Ainger** (MWH) and **Ed Bramley** (Yorkshire Water);

Framework for a sustainable water industry

Environment Agency representative

Ofwat representative

Afternoon session 14:00 to 17:00

Chairs: **Ian Kirkaldy**, Director of Water Europe, Black & Veatch and **Charles Ainger**, Head of Sustainability, MWH

Speakers include:

Bruce Horton (Water UK);
How sustainable is the UK water industry?

Nicholas Wood (Entec);
Footprints in water: the challenging opportunity for the UK water sector to understand and go low carbon

Mark Shepherd (ADAS);
Catchment based strategies to avoid end-of-pipe solutions: A sustainable solution to diffuse pollution?

Martin Hall (Mouchel Parkman);
Risk assessment and management techniques

Panel members include:

Martin Hurst (Defra)
Tom Le Quesne (WWF-UK)
Charles Ainger (MWH)
Ed Bramley (Yorkshire Water)
Environment Agency representative
Ofwat representative

Panel Discussion

A Research Perspective: Horizon Scanning

Track **C**:

14:00 to 17:00

Horizon scanning is the systematic examination of potential threats, opportunities and likely future developments which are at the margins of current thinking and planning.

How is horizon scanning used in the environment sector?
What future environmental risks and opportunities are likely to emerge as key issues for the next century?
What should our research priorities be?

Speakers include:

Tony Rachwal (Tony Rachwal and Associates)
Andrea Gysin TBC (Mouchel Parkman)
European Environment Agency representative TBC
Tony Allan (London Water Research Group)
Mary Barkham (Environment Research Funders' Forum)

The Environment and the Legal Profession

Track **D**:

14:00 to 17:00

A workshop run in conjunction with The Academy of Experts will inform delegates about the role of expert witnesses and how one can become an accredited Expert Witness.

Facilitated by **Philip Newman** (Barrister & Vice Chairman, Academy of Experts)

Workshop

Sustainable Waste Management

Track **E**:

14:00 to 17:00

Within a global context, this session will explore a range of technical and societal challenges to sustainable waste management, from resource management and recovery to public participation in community waste management schemes.

Chair: **Cllr Brian Haley**, Cabinet Member for Environment and Conservation, London Borough of Haringey

Speakers include:

Howard Robinson (Enviros Consulting Limited);
Management of gas and leachate at tropical landfill sites
Andrew Godley (WRc);
Strengths and weaknesses of biodegradability tests for assessing BMW diversion from landfill
John Warren (Amphill Consulting Engineers);
Waste management strategies for post-conflict economies
Matthew Thomson (Chief Executive, London Community Recycling Network);
Community waste management: global dimensions, local developments
Tim Walker (Belfast City Council);
Introducing alternate weekly collections in Belfast

17:00 Official Closing of The Global Environment 2007 with a Thank You from CIWEM.

Supporting organisations:



ARNOLFINI

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Centre for Contemporary Art
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theENDSreport



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THE GLOBAL ENVIRONMENT 2007



Location

This year's event comes to London for the first time, at locations between the UNESCO World Heritage Sites of Westminster and Greenwich. Delegates and their guests will have the opportunity to explore the past, present and future of this World City which will host the Olympics in 2012. All of our venues are fully accessible and offer delegates unrivalled settings in which to debate, share knowledge and build business relationships.

The conference venue

The OCS Stand at the Brit Oval is a world-class events facility designed by HOK, offering superb facilities for conference delegates and unrivalled corporate hospitality for sponsors. The Brit Oval is the home of Surrey County Cricket Club and the Test Match venue where England won the Ashes in 2005, located just south of Vauxhall Bridge. The conference rooms, exhibition, café bar and corporate hospitality boxes all overlook the ground, which offers an oasis of calm and greenery in central London.

The conference hotel

City Inn Contemporary Hotels was recently voted 'Best Business Hotel Brand' for the second year running. City Inn Westminster is a contemporary and innovative hotel, close to the River Thames, with original contemporary artwork exhibited throughout.

Hotel reservations

Visitors to London have a wide choice of hotels including City Inn Westminster at which our reservations service, PHR, has negotiated discounted rates for delegates. Whether you prefer a luxury hotel with river views, or one where you can bring the family for the weekend, we can accommodate you. Book your hotel online at www.phrplc.com (event code 'oval') or call 0845 6123 602 quoting CIWEM 07.

Travel and how to get there

All of our events take place in central London, the easiest place in the UK to reach by public transport. Delegates will receive joining instructions with directions, and the conference website will also have links to sites giving information on road, rail and river transport.



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