



Revisiting Water Injection for the 21st Century

31 August–5 September 2008 ■ Cascais, Portugal

Well Construction in 2020+

14–19 September 2008 ■ Dubrovnik, Croatia

~~Terabytes~~ *Petabytes* in Asset Management

21–26 September 2008 ■ Dubrovnik, Croatia



The SPE Forum Series provides opportunities to examine current technical issues and problems through dialogue and discussion. This 21st Forum Series is intended to promote maximum discussion and the exchange of information on new advances, with minimal prepared presentations or review of existing technology.

The format of the Forum Series provides morning and evening sessions which include short scheduled presentations, leaving maximum time for discussion and exchange of experience. Afternoons are used for more informal discussion and for networking opportunities through organised recreational and team building activities.

Intended as an intensive learning experience for all participants, the format of the Forum Series promotes dialogue between individuals of comparable status and experience working for a wide variety of international operating companies, universities and research institutes, service companies and contractors across a broad spectrum of the oil and gas industries.

This year there are three different forums taking place. Further information can be found inside this booklet or alternatively on the website.



SPE Forum I: Revisiting Water Injection for the 21st Century

Water injection has been used for decades as a means of improved oil recovery. More recently, stronger environmental awareness has led authorities to prohibit the discharge of produced water. In a sense this further complicated water management between its two traditional components – i.e. mechanics and chemistry. The balance between surface treatment of injected water and the use of higher-pressure pumps has been a challenge but it is further exacerbated by the need to inject hotter and dirtier fluids. This challenge poses itself both for existing installations where the room for manoeuvre is limited and in the design of optimised future installations.

As a consequence, numerous recent studies have been dedicated to the subject of water injection and have shown that the industry's understanding of the subject was far from perfect.

- For example field measurements of thermal effects around injectors sometime lead to values that are one order of magnitude larger than what theory would predict.
- The evolution of the fracturation pressure with the reservoir pressure around water injectors has been observed but is not understood yet.
- The seal above several large fields has been breached "accidentally" by too aggressive or ill-planned water injections schemes.

- The experience with re-injecting produced water in very weak shallow aquifers is very mixed and one can even question if a robust completion method has been developed for the wells.

From the few examples above, one realises that the lack of proper understanding is not new but that it becomes of primary operational importance nowadays when fields are often expected to inject several kinds of water with various amount of dirt and different temperatures over their lifetime. The consequences of this lack of understanding are all the more worrying that they not only concern the economy of operations but also safety and environment.

The goal of the forum is to define clearly what is known and unknown with water injections in the 21st century. More importantly, it will try to identify the most promising solutions offered to the industry such as how to inject water with maximum safety and economy despite the existing unknowns and the added environmental constraints.

Steering Committee

Marco Brignoli, Eni (Co-Chairperson)

Hilde Anfindsen, StatoilHydro (Co-Chairperson)

Ian Collins, BP

Jean-Louis Detienne, Total

Torbjørn Eikaas, M-I SWACO

Livia Hastenreiter, Petrobras

Ole Havmøller, StatoilHydro

Dave Norman, Chevron

Keith Robinson, Oil Plus

Mukul Sharma, University of Texas

Paul van den Hoek, Shell

Michael Zettlitzer, RWE Dea

Who Should Attend

The Forum is a limited attendance meeting for up to 75 people, designed for professionals in the oil and gas industry. This forum aims to implement a 'new' multidisciplinary approach to an old subject. As such technical experts and multidisciplinary teams, from oil and service companies, universities, research institutes and organisations involved in all aspects related to water injection issues are encouraged to participate.

Be sure to
 apply by
 12 May 2008!

SPE Forum I Technical Agenda

SUNDAY EVENING

Icebreaker and dinner

MONDAY MORNING—Session 1:

“Smart” and “stupid” reservoir engineering in waterfloods to date

Session managers: **Dave Norman and Paul van den Hoek**

This session reviews good and bad practice of water injection in a range of different environments—light and heavy oil; sandstone, (fractured) carbonate; consolidated and unconsolidated. General issues in this area concern areal and vertical sweep, and voidage replacement. Examples of more specific issues that could be addressed during this session are interaction (coupling) between reservoir engineering and geomechanics; water injection into heavy oil; induced fracture containment; and the implications of the above for future EOR operations.

MONDAY EVENING—Session 2:

From conventional water injection to EOR

Session managers: **Torbjørn Eikaas and Michael Zettlitzer**

In the future, do we need to increase our knowledge with regard to the impact of the injected water chemistry on reservoir performance, souring, and quality? Will it be beneficial in the future to increase the focus on the injection water properties over the total life time of the field and try to gain flexibility when the need for utilising (chemical) EOR techniques arises?

TUESDAY MORNING—Session 3:

Things that influence the link between the well and the reservoir

Session managers: **Ole Havmøller and Mukhul Sharma**

This session deals with the links between the well and the reservoir. The processes related to formation damage, plugging and fracturing in the near wellbore region are very important not only for long term injectivity, but also for sweep efficiency. Topics such as impact of water quality on injector performance, injection into multi vs. single target horizontal and deviated wells, as well as fracture growth in injection wells, will be covered.

TUESDAY AFTERNOON—Session 4:

Things that influence well construction architecture

Session managers: **Jean-Louis Detienne and David Norman**

This session is to first create an awareness of the current practices used for water injectors, then bring attention to the “gaps or short comings” of these systems, and then have open discussion to address these issues.

The second half would further identify the issues that can be addressed in short, medium, and long time frames. Those that need significant advancement will be addressed for finding the best solutions and determining their impact on current operation environment.

WEDNESDAY MORNING—Session 5:

Facilities Design & Operation

Session managers: **Keith Robinson and Michael Zettlitzer**

Challenges for future water injection facilities are in achieving increased reliability, both in simple and complex (e.g. desalination) water treatment facilities at a minimum overall environmental cost—a holistic approach or best practicable environmental option.

WEDNESDAY EVENING—Session 6:

Living with physics that we do not understand

Session managers: **Ian Collins and Ole Havmøller**

This session will explore the limits of our knowledge on the physics and chemistry of water injection, including how we can improve our understanding and how we can manage our water injection cycles in light of a lack of knowledge. The injected water interacts with indigenous water, oil, and reservoir rock. These interaction processes and their implications are far from fully understood. Furthermore, established theory for fracturing as a function of pore pressure and temperature changes, in many cases, does not match with field evidence.

THURSDAY MORNING —Session 7:

Surveillance to reservoir management practice

Session managers: **Livia Hastenreiter and Paul van den Hoek**

In recent years, surveillance has regained significant prominence as one of the key elements of “good oil field practice”. On the technology front, significant progress was made to enable improved continuous monitoring of the subsurface (e.g. 4D seismic, electromagnetics). This session will focus on how the variety of surveillance data is used to come up with an overall consistent picture of how the reservoir is responding to our operational actions, and based on that, to take the right set of business decisions aimed at (further) optimising field performance.

THURSDAY EVENING—Session 8:

How smart can we get? Do we have the flexibility?

Session managers: **Ian Collins and Torbjørn Eikaas**

It is clear that recovery from oilfields in the 21st century will depend greatly upon active and proactive management of the reservoir. Critical to this will be a much more managed approach to waterflooding and the water lifecycle. In order to achieve this, we need not just smart wells but smart reservoir management driven by accurate, and potentially real time, surveillance data. This session will explore how smart the oilfield can become, and in particular, how we can achieve more accurate and timely waterflood performance, field performance, and surveillance data in the increasingly harsh and difficult environments that we operate in.

FRIDAY MORNING—Session 9:

Wrap up session: New point of views on Water Injection

Session managers: **Hilde Anfindsen and Marco Brignoli**

New approaches to water injection need to revisit traditional schemes by releasing usual assumptions and perhaps think unconventionally. This wrap-up session will address the significant points emerged during the discussions, summarise the related findings, and the eventual schemes for improving the water injection work flows. Particular emphasis will be given to the future perspectives emerged during the week.

SPE Forum II: Well Construction in 2020+

Future E&P efforts will focus on an ever widening range of hydro-carbon recovered scenarios all the way from increasing recovery from existing fields through large IOR/EOR schemes, requiring massive numbers of low-cost wells to accessing very demanding prospects in remote areas with highly complex multi-functional wells. For each of those scenarios, fit-for-purpose well and completion concepts are required that facilitate optimum production under changing reservoir conditions over the life-cycle of the wells in a cost-effective way. In addition, advanced reservoir management concepts (e.g. Smart Fields) will require the cost-effective deployment of a sub-surface observation/monitoring infrastructure.

Technical challenges for the well construction and completion community are to develop a range of capabilities for the delivery of wells with versatile completions as key enablers for the realisation of various field development scenarios at reducing unit production costs. Various innovative and emerging technologies both in and outside the oil industry may provide opportunities to make step improvements towards the realisation of these capabilities.

This forum will explore how improved versatility and flexibility of well functionalities over their life-cycle could optimally support cost-effective development of various production scenarios;

The forum will also identify how embryonic and emerging research and technologies under development in other industries

(e.g. mining, civil, space industry) could be integrated to meet the challenges for the coming decades. Finally, technology gaps will be identified to serve as a guide for research and technology development programmes in the coming decade.

Topics for discussion in the forum include, but are not limited to:

- Inventory of functional requirements over the well life-cycle that would minimise unit production cost of specific field development scenarios.
- How to increase flexibility of wells over their life-cycle and what technical requirements should be met (e.g. what are the essential ingredients for an interventionless completion).
- Integration of sensor deployment capability in well construction in support of Smart Field developments.
- Explore how the potential of emerging technologies (e.g. pipe expansion technologies, advancements in material developments, nano-particle technologies, coatings and novel rheology fluids) could be exploited to meet the challenges.
- Explore how hole making/securing, automation etc. under development in other industries (e.g. mining; civil; space industry) could be integrated.
- What technology gaps need to be filled and what research is required in the coming decade to enable step improvements to be made.

Steering Committee

Paul Francis, Shell (Chairperson)

Simon Austin, BJ Services

John Downs, Cabot

Ian Falconer, Schlumberger

Stein Havardstein, Total

Sigve Hovda, StatoilHydro

Gavin Humphreys, Stena

Holger Kinzel, Weatherford

Jon Ruzska, Baker Hughes

Jon Morgan – Smith, Halliburton

Bruce Stewart, Dynamic Dinosaurs

Cor van Kruijsdijk, TU Delft / Shell

Who Should Attend

The Forum is a limited attendance meeting for up to 75 people, designed for professionals in the oil and gas industry. This forum will appeal to multidisciplinary teams and technical experts in operating companies, service companies, and academic institutions, who are involved in aspects of field development, planning, drilling, completion, and intervention of wells. This should be complemented by participation of experts from outside the oil industry (e.g. mining, civil, space industry and materials technology).

SPE Forum II Technical Agenda

SUNDAY EVENING

Icebreaker and dinner

MONDAY MORNING—Session 1:

Defining the Challenges

Session managers: **Simon Austin and John Downs**

In this session we will frame the challenges for drilling in 2020+:

- What are the hydrocarbon resources we will need to exploit?
- What are the challenges in drilling we will face in exploiting these reserves?
- Given these challenges, where should we focus our effort?

MONDAY EVENING—Session 2:

Defining the Functional Requirements

Session managers: **Simon Austin and Jon Morgan-Smith**

In this session we will contemplate the functional requirements for drilling wells in 2020+.

- What types of wells will we be drilling and what will the major well design and technology challenges be?
- How far will our operating envelope be extended for parameters such as measured depth, deviation, reservoir pressure and temperature, and water depth offshore?
- Will the demands arising from our drilling locations change and how will our health, safety, and environmental challenges develop?

TUESDAY MORNING—Session 3:

Reservoir Exploitation Strategies

Session managers: **Gavin Humphreys and Cor van Kruijsdijk**

This session aims to look at:

- Balance value vs. cost drives complexity of well architecture and completion
- Field development incorporation of well intervention strategies over the life cycle to maximise UR
- Matching choices to surface/subsurface environment

TUESDAY AFTERNOON—Session 4:

Well Construction

Session managers: **Sigve Hovda and Jon Ruzska**

In this session we will consider how the challenges in the years 2020+ will influence well construction to exploit the wider range of reservoir types in the different environments anticipated.

- What will the design of these wells look like to improve recovery by whole orders of magnitude over what we achieve today?
- What construction techniques will be required to deliver these wells significantly more efficiently than we do today?
- How will these wells be planned, drilled and completed to comply with stringent HSE requirements?
- What new technology and working practices will be needed to achieve this?

WEDNESDAY MORNING—Session 5:

Well Production-sensors, smart completions, interventions

Session managers: **Stein Havardstein and Jon Morgan-Smith**

In this session we will explore innovative production advancements that are likely to benefit us through the years 2020+.

- Will advancements in smart technology and collaborative processes influence well production and enhanced recovery through the use of sensors, smart completions, and well interventions in the foreseeable reservoir types and contrasting environments of the future?
- What future collaboration, smart completion, and intervention technology is envisaged to improve production recovery above and beyond what we expect to achieve nowadays?
- What well intervention techniques could be deployed to significantly impact production in terms of delivery and efficiency above and beyond those used at present?
- How will these well production, completion, and intervention techniques be adapted to collaborate with the health, safety, and environmental requirements of the future?

WEDNESDAY AFTERNOON—Session 6:

Radical Ideas

Session managers: **Bruce Stewart and Cor van Kruijsdijk**

This session will review fundamentally new methods of well construction and means of locating and producing subsurface hydrocarbons.

It is expected that this challenge will specifically address:

- Very low well construction concepts to enable accessing of sub-economic reserves
- Methods of accessing difficult or “impossible” to reach reserves
- Use of well construction expertise to develop new production concepts
- New concepts in exploration micro-drilling

THURSDAY MORNING—Session 7:

Managing the Drilling Process (Rev 0)

Session managers: **Sigve Hovda and Holger Kinzel**

In this session we will discuss the drilling process—the making of the hole! On narrow margin wells and other challenging wells, we see indications that today's drilling process and the way it is controlled is stretched to its outer limits! The result is often large NPT, time, and budget overruns.

- How will the drilling process look like in 2020 and beyond?
- How will we use the data to optimise the safety and efficiency?
- What can we learn, if anything, from other manufacturing processes?

THURSDAY AFTERNOON—Session 8:

Cultural Changes and Human Resources

Session managers: **Stein Havardstein and Holger Kinzel**

- How will we achieve the necessary cultural changes in our management styles and company philosophies?
- Who comes after the generation that now is 50+ years old?
- What are the best ways to attract and train all the young people needed to help us to create the changes and to manage the future?

FRIDAY MORNING—Session 9:

Wrap up session

Session managers: **Ian Falconer and Paul Francis**

The final session of the forum will collate the ideas discussed and look at ways of closing the technology gaps that have been identified during the week.

Be sure to
apply by
12 May 2008!

SPE Forum III: ~~Terabytes~~ Petabytes in Asset Management

The amount of data generated during the asset lifecycle has moved to the petabytes (10^{15}) level and is now heading towards the exabytes (10^{18}) range. Today's E&P activities, including 4-D seismic applications, large scale geological and reservoir models, measurements during drilling and completion, distributed permanent measurements in wellbores and from SCADA systems, are all generating huge data volumes. These may exceed the scale of data managed by many other industrial segments. Geoscientists, engineers and other E&P professionals will have to successfully navigate through this ever more complex and voluminous maze of data, whilst delivering against tight deadlines and budgets.

In the next 10-15 years, the volume of multi-dimensional data, computing power and the complexity of regulatory regimes will all increase significantly. Growth may exceed exponential levels in some domains. This will create huge opportunities as well as numerous challenges for the professional. Within an environment of increased risk management, automation, uncertain data provenance and scarcity of skilled people the forum will examine how these challenges can be overcome and opportunities fully exploited.

We need to think differently, possibly very differently to successfully solve the problems that lie ahead. The forum will address this and will include discussion on the following industry issues and opportunities:

- How to Optimise the value of information by understanding what future data management architecture will look like. This will include how to deliver effective governance, lifecycle data management, data quality and access.
- How to efficiently integrate workflows and operations to enable breaking the barriers amongst and between asset groups, disciplines, service companies and partners.

- How to drive more informed decision-making across a wider and more diverse business domain.
- How organisations can develop the capability and knowledge to make and communicate rapid decisions and evolve new insights effectively through recognising increasing data volumes and complexities whilst managing and solving the problem of a decreasing industry experience resource pool.
- What technology and approaches are required to manipulate and visualize complex datasets, in a holistic collaboration environment?
- How will consumer driven entertainment technology (for example) and a thousand fold increase in computer power change the way that we think about and access the data? How can we learn from and react to the new generation of E&P professionals who may see the industry technology problems very differently and who will certainly seek to develop a different way of working?
- How can we leverage innovations and advances in other industries and academia?
- How will we balance industry standards against technology innovation? How will we (and should we) embrace service oriented presentation layers? How will we embrace the increased use of expert systems, such as neural networks, to manage complex data sets, and enable quality control?

This is an exciting and indeed unique opportunity for creative and innovative E&P and other thought leaders to debate and help shape industry technology and process evolution in the years ahead. The forum encourages applications from IT, E&P professionals and others who will join academics, regulators and leaders from other sectors.

Steering Committee

Andrew Priestley, BP (Co-Chairperson)
Tony Smith, Schlumberger (Co-Chairperson)
Ali Ferling, Microsoft
Gavin Goodland, TNK –BP
Lars Olav Grøvik, StatoilHydro
Robert Gurney, University of Reading
Dag Heggelund, Schlumberger

David Holmes, Landmark
Nick Milton, Knoco
Dennis O'Neill, SAIC
Chrisoph Ramshorn, Meteoblue
Alan Pointing, Venture
Alan Smith, Paras

Who Should Attend

The Forum is a limited attendance meeting for up to 75 people, designed for professionals in the oil and gas industry. This forum should be attended by team leaders and members from asset management, G&G, well construction, production, and reservoir departments. Practitioners and leaders in both oil and gas companies and suppliers (hardware, systems, applications, and data management) will find the forum beneficial.

Be sure to
apply by
12 May 2008!

SPE Forum III Technical Agenda

SUNDAY EVENING

Icebreaker and dinner

MONDAY MORNING—Session 1:

“20-20” Vision

Session Managers: **Andrew Priestley and Tony Smith**

It's September 22, 2020... This session discusses a typical day in the life of an E&P professional from a data and information perspective. For example, technologies being developed for the leisure and gaming industry (consoles etc...) might be day to day tools in the E&P business!

MONDAY EVENING—Session 2:

Knowledge Management – Using the Petabytes

Session Managers: **Nick Milton and Christoph Ramshorn**

Tomorrow's world will place great demands on professionals, requiring them to access and build on existing knowledge, and to find and assimilate structured and unstructured data, in an environment where data levels are high, and experience levels may be low.

This session will explore the issues related to searching, sharing and reusing knowledge and information, to eradicate duplication and ensure rapid effective decision making

TUESDAY MORNING—Session 3:

Collaborate or Evaporate

Session Managers: **David Holmes and Ali Ferling**

Components of the oilfield lifecycle are increasingly being outsourced, assets have more partners and stakeholders and the digital oilfield is generating vast amounts of data in real time.

This session will look at how the landscape in oil and gas would change if effective, secure, seamless collaboration between partners, service companies, disciplines and geographies was available. Looking at the current limiting factors and constraints, new solutions will be discussed and developed. Challenges of delivering X-Box style 3D visualisation in a geographically diverse collaboration zone will also be addressed.

TUESDAY AFTERNOON—Session 4:

Handling petabytes of data

Session Managers: **Dag Heggelund and Christoph Ramshorn**

How will data managers handle the huge volume of data? When will our current paradigm for data management fail? How will we know it has failed? How will data managers ensure the data meets quality standards? On what type of machine will they store it? How will they move it around? What processing capabilities will be required? How will future applications communicate with huge data volumes? What security models will be available? How do other sectors work with comparable data volumes?

WEDNESDAY MORNING—Session 5:

Standards and innovation, a doomed marriage?

Session Managers: **Lars Olav Grøvik and David Holmes**

Implementing standards without killing innovation; what needs to be done now to give us hope for the future? This session will consider the contradiction between delivering rapid innovation to the enterprise and managing change/forcing the adoption of standards. The dream of a plug and play oilfield lifecycle computing environment will be demanded and the problems overcome.

WEDNESDAY EVENING—Session 6:

Information Requirements to Meet Environment and Regulatory Challenges

Session Managers: **Dennis O'Neill and Robert Gurney**

Environmental legislation increasingly requires the industry to be more formal in assembling, retaining and distributing data to support major financial decisions and reserves estimates. Operations in environmentally sensitive and harsh areas and effective incident response also require access to data. Future demands such as managing carbon emissions will only increase the requirement. This session will explore these challenges.

THURSDAY MORNING—Session 7:

Generating business value through data and information; justifying the people needed to manage the data

Session Managers: **Gavin Goodland and Alan Smith**

Making a business case for managing data and information has never been easy. With the move into using petabytes and exabytes of data how can we ensure the investment needed to manage the data is forthcoming? Does the business understand the uncertainty in the data and hence the business risk? What sort of people and organisations will we need in the future to handle the data and deliver the services to cope with these volumes? What have we learnt from our past “failures” in data management?

THURSDAY EVENING—Session 8:

Education 2020

Session Managers: **Robert Gurney and Dennis O'Neill**

How does E&P attract people with the right skills, and what should be a university degree for E&P look like in 2020? How do practitioners keep up to-date at a time of very technological change, and how can we learn from others and share best practice?

This session will address these challenges in the evolution of the E&P workforce over the coming decades by determining how to leverage the “digital generation”, expanding the capabilities of our existing workforce, and exploit the successes both within and outside our industry in this area?

FRIDAY MORNING—Session 9:

Wrap up session – 2020 vision or E&P myopia?

Session Managers: **Andrew Priestley and Tony Smith**

The vision and the week's discussions are revisited in this final session.

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Application information

Upon acceptance by the Forum Series Steering Committee, applicants will receive a registration and hotel accommodation form with detailed information on accommodation, transportation and fees. All participants must register and pay the fixed fee in advance.

Forum Registration Fee

Registration Fee: **GBP £1495**—(Croatia and Portugal)

Included in the fee for the Forum participant:

- Registration to attend all sessions at one forum
- Five nights hotel accommodation based on single occupancy
- Welcome Reception and Dinner (Sunday evening)
- Breakfast, lunch, and dinner each day (Monday–Thursday), except Tuesday evening dinner during free evening
- Breakfast and lunch (Friday)
- Coffee breaks each day
- Scheduled coach transport to and from Dubrovnik and Cascais airport and the hotel at the beginning and end of the forum

Please note that it is mandatory to commit to attend all forum sessions and that the forum fee is a fixed full registration fee.

The Forum Series Format

The format of the Forum Series provides morning and evening sessions which include short scheduled presentations, leaving maximum time for discussion and exchange of experience. Afternoons are used for more informal discussion and for networking opportunities through organised recreational and team building activities.

The format of the Forum Series, which is intended as an intensive learning experience for all participants, promotes dialogue between individuals of comparable status and experience working for a wide variety of international operating companies, universities and research institutes, service companies and contractors across a broad spectrum of the oil and gas industries.

The reporting of new, unpublished work and incomplete results is encouraged. Written papers are prohibited, and extensive note taking forbidden.

Although a written summary of the major issues and consensus of opinion arising from the forum discussions, may however, be prepared by the steering committee, and distributed to all forum attendees after the conclusion of the forum, information disclosed at an SPE Forum may not be used publicly without the originator's permission. All forum participants are specifically requested to omit public reference to forum proceedings in any published work or oral presentation. Registrants agree to discuss and share with forum participants their experiences and knowledge in the subject area, specifically those areas of advanced technology in a given subject area.

Forum Accommodation

Dubrovnik, Croatia

The Hotel Excelsior, Dubrovnik, is a 5-star, comfortable, and well equipped hotel which has been recently renovated to a high standard. The hotel is situated in a prime location in Croatia, just a short walk from the historical centre of Dubrovnik. It lies within 25 minutes drive by motorway from Dubrovnik International Airport. The hotel is a 2-hour flight from London and Frankfurt International Airports.

Cascais, Portugal

The Hotel Quinta da Marinha & Villas, Golf Result, Cascais is a tranquil hotel, well-equipped with many facilities, and situated 30km from Lisbon and the International airport. It is just 10 minutes from the centre of Cascais and 20 minutes from Sintra.

Details of accommodation and rates for spouses and family members for all forums will be sent with the registration packet, which will be mailed to each delegate upon acceptance.

Contact Information

For further information please visit www.spe.org/forums, or alternatively contact Thea Campkin (tcampkin@spe.org) or Sophie Young (syoung@spe.org) on +44 (0)20 7299 3300

Language

The official language of the Forum Series in Europe is English.

Application Deadline

12 May 2008

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apply by
12 May 2008!