



Credentials Matt Mushalik

### **Educational qualifications:**

Master in Civil Engineering (Darmstadt, 1970) and Postgraduate Degree in Regional Planning (Karlsruhe, 1975)

**Jobs and projects:** Civil Engineering in Frankfurt, Regional Planning in Karlsruhe, Town-Planning for new Capital in Dodoma (Tanzania), Rural Growth Centres in Malawi, Infrastructure for Agricultural project in Bangladesh, Computer Programming for CIVILCAD (Sydney), Cost accounting in construction (Frankfurt), Sheetpiling in Sydney, Timesheet software for surveyors (Sydney)

### **Membership**

MIEAust, CPEng before retirement

Member of ASPO (non-profit Association for the Study of Peak Oil and Gas)  
<http://www.aspo-australia.org.au/>

Member of non-profit Ecotransit  
<http://www.ecotransit.org.au/etsstatic/>

### **Experience in relation to crude oil analysis (some examples)**

My expertise has developed over the years by writing submissions and doing slide shows for conferences and Councils. This record also includes reference to failed projects I advised against and other predicted events which have happened or are happening.

#### **(1) Starting from July 2004**

As resident of Bennelong, I had a 3 year long exchange of letters on peak oil (including graphs, links and other documentation) with then Prime Minister John Howard. I warned him that peak oil might happen during what turned out to be his last term. It did. In April 2011, ABC TV had a story <http://www.abc.net.au/catalyst/oilcrunch/> in which IEA chief economist Fatih Birol confirmed that the conventional oil peak happened in 2006. I have documented it here:

8/7/2011 "Yes, Prime Minister", peak oil 2006 under your watch  
<http://crudeoilpeak.info/yes-prime-minister-peak-oil-2006-under-your-watch>

#### **(2) November 2004**

8/11/2004  
Critique of Energy White Paper June 2004  
<http://crudeoilpeak.info/critique-of-energy-white-paper-june-2004>

### (3) November 2004 – February 2005

Submissions #4 and #75 to the Productivity Commission's inquiry on energy efficiency

www.pc.gov.au/projects/inquiry/energy/docs/submissions

<< Previous 100 submissions | Total: 155 submissions | Next 100 submissions >>

No.	Individual / Organisation	Date	Pages	PDF	Text
1	Dr Phillip Laird #	22/10/2004	27	PDF 145.5 KB	RTF 125.5 KB
2	Australian Gas Association	10/11/2004	4	PDF 42.7 KB	RTF 136.4 KB
3	Sustainable Projects Pty Ltd #	01/11/2004	16	145.5 KB	ZIP 877.9 KB
4	Matt Mushalik #	08/11/2004	33	PDF 143.4 KB PDF 2.4 MB	RTF 358.0 KB ZIP 4.1 MB
75	Matt Mushalik #	07/02/2005	50	PDF 11.0 KB PDF 1.4 MB PDF 1.7 MB	RTF 7.4 KB

<http://www.pc.gov.au/projects/inquiry/energy/docs/submissions>

### (4) Feb 2005 and following months

After the publication of BTRE's working paper 61 "Is the world running out of oil, a review of the debate"

[http://www.bitre.gov.au/publications/2005/wp\\_061.aspx](http://www.bitre.gov.au/publications/2005/wp_061.aspx)

I had an exchange of emails with the author Lyn Martin. My critique of WP 61 in August 2005 was published here:

[http://www.infrastructure.gov.au/aviation/nap/files\\_green\\_paper/MUSHALIK\\_Matt-CritiqueBTRE\\_WP61.pdf](http://www.infrastructure.gov.au/aviation/nap/files_green_paper/MUSHALIK_Matt-CritiqueBTRE_WP61.pdf)

Other peak oilers also contacted BTRE and we believe that this led to further BTRE research in the following years, culminating in BITRE report 117 (March 2009) with a peak (including unconventional oil) in 2017.

### (5) February 2006

Submission #69 to the Senate Inquiry on oil supplies

www.aph.gov.au/Parliamentary\_Business/Committees/Senate/Committees?url=rrat\_ctte/completed\_inquiries/2004-07/oil\_supply/submissions/sublist.htm

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Senate Committees

Submissions received by the Committee as at 11 October 2006

Sub No.	Submitter
68	Biodiesel Association of Australia (PDF 99KB)
69	Mr Matt Mushalik (PDF 3423KB)
70	Ms Caroline Le Couteur (PDF 20KB)

[http://www.aph.gov.au/Parliamentary\\_Business/Committees/Senate/Committees?url=rrat\\_ctte/completed\\_inquiries/2004-07/oil\\_supply/submissions/sublist.htm](http://www.aph.gov.au/Parliamentary_Business/Committees/Senate/Committees?url=rrat_ctte/completed_inquiries/2004-07/oil_supply/submissions/sublist.htm)

## (6) July 2006

Meeting with Dr. Ali Samsam Bakhtiari (one of 2 OPEC whistleblowers) after the Senate hearing on oil supplies in the Jubilee room of the NSW Parliament

[http://www.aph.gov.au/Parliamentary\\_Business/Committees/Senate\\_Committees?url=@Hansard/S9515.pdf](http://www.aph.gov.au/Parliamentary_Business/Committees/Senate_Committees?url=@Hansard/S9515.pdf)

Dr. Bakhtiari predicted that Iran will no longer export oil by 2015. Here is the monitoring of this process:

<http://crudeoilpeak.info/iran-peak>

Ali died in 2007 in Tehran. I paid tribute some years later, in the same room:

<http://www.youtube.com/watch?v=UCUmTHqIeY>

## (7) Oct 2007

www.theoil Drum.com/node/3052

# The Oil Drum

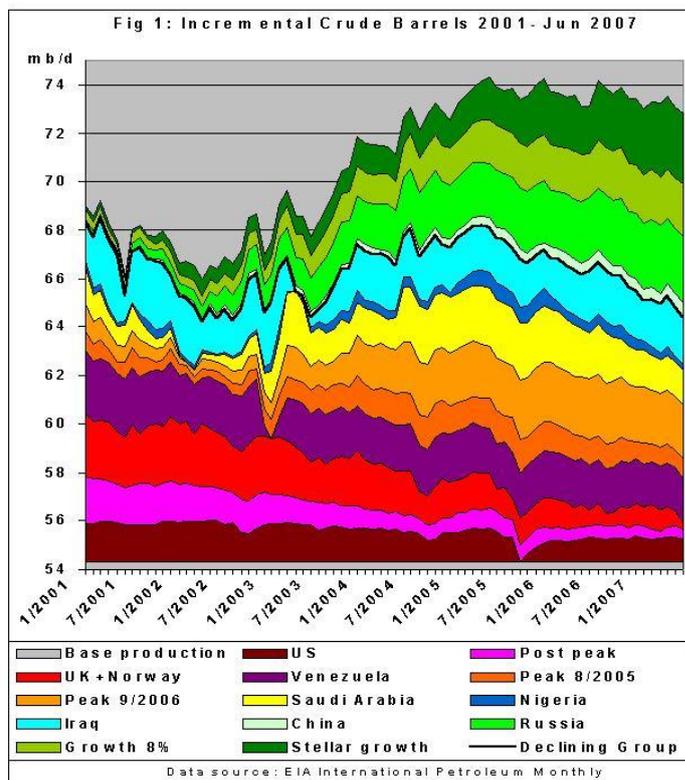
DISCUSSIONS ABOUT ENERGY AND OUR FUTURE

DrumBeat: October 9, 2007      The Oil Drum      Getting a Grasp on Oil Production Volumes

## Did Katrina Hide the Real Peak in World Oil Production? and Other Oil Supply Insights

Posted by **Gail the Actuary** on October 9, 2007 - 10:00am  
Tags: [graphs](#), [hurricane katrina](#), [oil production](#), [original](#), [peak oil](#) [list all tags]

*In this post, I collaborate with Matt Mushalik from Sydney, Australia. Matt is a civil engineer, town and regional planner, peak oil advisor, and member of ASPO Australia. Most of the ideas in the post are Matt's. I have added a little to the analysis, particularly in the area of the Katrina impact.*



In 2007, when global crude oil production had declined for 2 years, I started my own analysis and came up with what I call incremental crude oil graphs in which only changes (since Jan 2001) are shown. These were published in October 2007.

Guest post in the Oil Drum with Gail the Actuary:

Did Katrina Hide the Real Peak in World Oil Production? and Other Oil Supply Insights

(8) Feb 2008

Houston based Matthew Simmons, investment adviser to the oil and gas industry

[http://en.wikipedia.org/wiki/Matthew\\_Simmons](http://en.wikipedia.org/wiki/Matthew_Simmons)

Peak Oil Workhorse Matt Simmons: 1943-2010

<http://www.theoil Drum.com/node/6868>

took my incremental crude oil graphs published in the above Oil Drum article to a Pentagon briefing

Pentagon Briefing.pdf - Adobe Reader

## The Oil Drum Blog Contains Good Depletion Data

- The Oil Drum is widely read energy blog. Two collaborators in Australia post excellent Peak Oil graphics:

### GROWTH

### DECLINE

The PDF file of this slide show is no longer available on the internet, but was quoted here:

<http://transitioninaction.com/profiles/blogs/local-solutions-from-a-peak>

(9) April 2008

Peak oil slide show at the Ethanol 2008 conference in Sydney, Darling Harbour

<http://www.newsphotos.com.au/ImageDetail.asp?RefNum=91077613>

(10) March 2009

Peak oil slide show presentation to the Coffs Harbour City Council

[http://www.coffsharbour.nsw.gov.au/Coffs-And-Council/running-council/Documents/Minutes%20and%20Agendas%20-%202009/Minutes\\_City\\_Services\\_26\\_March\\_09.pdf](http://www.coffsharbour.nsw.gov.au/Coffs-And-Council/running-council/Documents/Minutes%20and%20Agendas%20-%202009/Minutes_City_Services_26_March_09.pdf)

As a result, a peak oil report and action plan was adopted

[http://www.coffsharbour.nsw.gov.au/Coffs-And-Council/running-council/Documents/Minutes%20and%20Agendas%20-%202009/LUHD\\_Agenda\\_14\\_May\\_2009.pdf](http://www.coffsharbour.nsw.gov.au/Coffs-And-Council/running-council/Documents/Minutes%20and%20Agendas%20-%202009/LUHD_Agenda_14_May_2009.pdf)

### (11) Aug 2009

Peak oil slide show for the MAV conference “Smart urban peak futures” at the Treasury Theatre, Melbourne

The poster for the 'Smart Urban PEAK Futures' conference is divided into several sections. The top section has a dark red background with the title 'Smart Urban PEAK Futures' in white. Below the title, two key questions are listed: '> Can we meet the challenge of urban sustainability?' and '> Can Australia's vulnerable urban areas be future-proofed?'. The middle section has a green background and provides the dates 'Wednesday August 19 & Thursday August 20, 2009' and the location 'Treasury Theatre, Lower Plaza, 1 Macarthur Street, East Melbourne'. It also states 'The aim of the Conference is to agree on a preferred future for Australia's urban areas.' and features the MAV logo (Municipal Association of Victoria). The bottom section has a light green background and includes the time '11.05am' and the title of the presentation 'How Councils have to prepare for declining oil production' by Matt Mushalik. A short summary of the presentation follows.

**Smart Urban  
PEAK  
Futures**

> Can we meet the challenge of urban sustainability?  
> Can Australia's vulnerable urban areas be future-proofed?

**Wednesday August 19  
& Thursday August 20, 2009**

**Treasury Theatre, Lower Plaza,  
1 Macarthur Street, East Melbourne**

The aim of the Conference is to agree on a preferred future for Australia's urban areas.

MAV  
MUNICIPAL ASSOCIATION OF VICTORIA

Hosted by the Municipal Association of Victoria (MAV) on behalf of local government nationally

11.05am 'How Councils have to prepare for declining oil production' Matt Mushalik

The case is made that the global peaking of crude oil production occurred in 2005-8. The recession has now damaged our economy, making it harder to respond to the crisis. Councils must now prepare and implement emergency plans with a time horizon of up to 5 years under the assumption that physical oil shortages will occur during that period. Education and participation of the public is essential when it comes to reducing car traffic by walking, cycling, and car-pooling. For metro areas various light rail solutions are presented with practical design examples from both Australia and overseas. Councils must convert their vehicle fleets to compressed natural gas. Therefore, funds from Federal stimulus packages should be used entirely for these "away from oil" strategies. Recently, Matt has helped the Coffs Harbour Council prepare a peak oil response plan.

<http://www.lgfocus.com.au/editions/index.php?view=editions/2009/june/smart.php>

### (12) April 2010

Meeting with Federal Resource Minister Martin Ferguson at the Cabinet Community Meeting in Epping

I was told that Australia can always buy oil. When I proposed that the Government cancel the Hunter Freeway and use the funds to finance a condensate splitter to make use of the condensate from wet gas fields (which is being exported into the bottomless pit of global oil markets), I was laughed at.

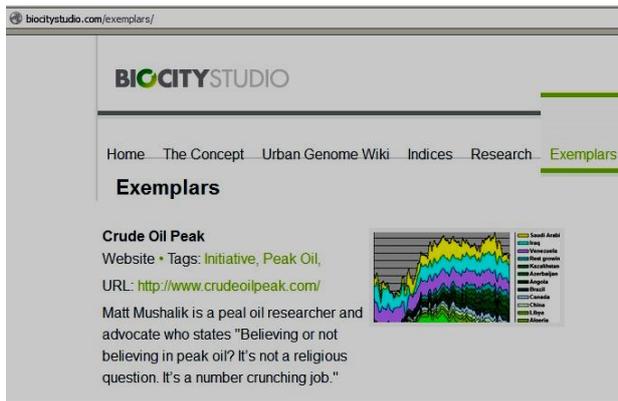
[http://www.dpmc.gov.au/community\\_cabinet/meetings/epping.cfm](http://www.dpmc.gov.au/community_cabinet/meetings/epping.cfm)

Now we have Australian refineries closing down.

*AUSTRALIA'S oil refineries have been "sentenced to extinction" and the country needs to decide if it wants to keep its refining capacity. ....With increasing concern about energy security, Dr Fesharaki said, "nobody else in the world is allowing wholesale reduction of its refinery capacity".*

<http://www.smh.com.au/business/oil-refiners-sentenced-to-extinction-20121119-29m4v.html>

(13) Aug 2010



Peak oil slide show for the Biocity Studio, University of NSW

<http://biocitystudio.com/exemplars/>

(14) Oct 2011

Guest lecture on peak oil at Macquarie Uni, Sydney

<http://www.handbook.mq.edu.au/2011/Units/UGUnit/GEOS309>

(15) November 2011

Peak oil slide show for the MAV transition conference at the Flemington Racecourse

<http://transitionhb.groupsie.com/post/report-mav-transition-conference-23-nov-2011>

<http://www.mav.asn.au/events/Related%20documents%20%20Building%20community%20resilience/Seven%20years%20of%20peak%20oil,%20Matt%20Mushalik.pptx>

(16) March 2012

Submission on the draft Energy White Paper 2011

A screenshot of the Australian Government Department of Resources, Energy and Tourism website. The page title is 'www.ret.gov.au/energy/facts/white\_paper/draft-ewp-2011/submissions/Pages/submissions.aspx#m'. The header includes the Australian Government logo, the Department of Resources, Energy and Tourism name, and a search bar. The main content area features a 'RESOURCES' sidebar with 'ENERGY' selected. The main content area has a banner for 'ENERGY' with the text: 'The Australian Government is committed to the provision of adequate, reliable and affordable energy to meet future energy consumption needs and to underpin strong economic growth, consistent with the principles of environmental responsibility and sustainable development.' Below the banner is a breadcrumb trail: 'Home > Energy > Energy facts, statistics, and publications > Energy White Paper 2012 > Archived: Draft Energy White Paper 2011 > Archived: Submissions for the draft Energy White Paper'. A table lists the submissions:

Archived: Submissions for the draft Energy White Paper	
Matt Campbell	[PDF 16KB]
Matt Mushalik	[PDF 4.3MB]
Melinda Wilson	[PDF 9KB]

[http://www.ret.gov.au/energy/facts/white\\_paper/draft-ewp-2011/submissions/Pages/submissions.aspx#m](http://www.ret.gov.au/energy/facts/white_paper/draft-ewp-2011/submissions/Pages/submissions.aspx#m)

<http://www.ret.gov.au/energy/Documents/ewp/draft-ewp-2011/submissions/198.Matt-Mushalik.pdf>

**(17) November 2012**

Submission #3 to the Australian Refinery Inquiry

[http://www.aph.gov.au/parliamentary\\_business/committees/house\\_of\\_representatives\\_committees?url=economics/oilrefineries/subs.htm](http://www.aph.gov.au/parliamentary_business/committees/house_of_representatives_committees?url=economics/oilrefineries/subs.htm)

**(18) June 2013**

Submission on the Sydney Metropolitan Strategy

[http://strategies.planning.nsw.gov.au/Portals/0/Documents/Submissions4/dms\\_2013\\_MattMushalik.pdf](http://strategies.planning.nsw.gov.au/Portals/0/Documents/Submissions4/dms_2013_MattMushalik.pdf)

**(19) June 2013**

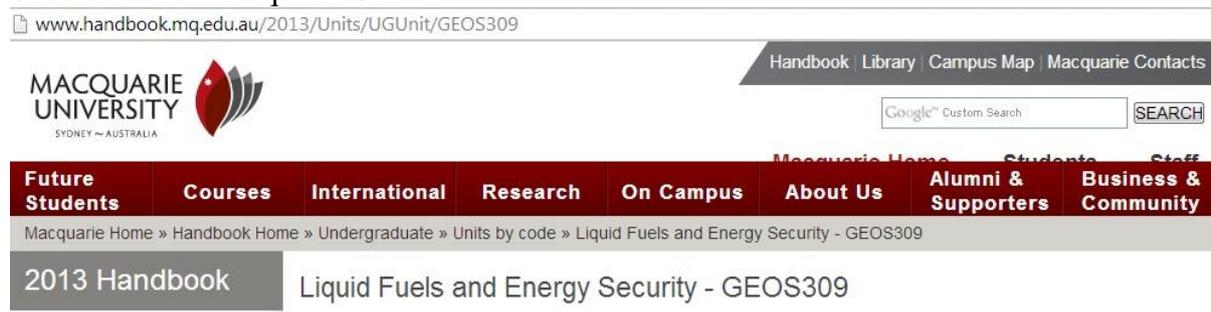
Submission on the High Speed Rail Study

[http://crudeoilpeak.info/wp-content/uploads/2013/06/High\\_speed\\_rail\\_submission\\_Matt\\_Mushalik.pdf](http://crudeoilpeak.info/wp-content/uploads/2013/06/High_speed_rail_submission_Matt_Mushalik.pdf)

**(20) Oct 2013**

Slide show for Macquarie Uni

[www.handbook.mq.edu.au/2013/Units/UGUnit/GEOS309](http://www.handbook.mq.edu.au/2013/Units/UGUnit/GEOS309)



<http://crudeoilpeak.info/wp-content/uploads/2013/11/Slide-Show-For-Macquarie-Uni-Oct-2013-final-version.pptx>

**(21) Nov 2013**

Publication of my US oil import article in the Eureka report

[www.eureka.com.au/article/2013/11/1/oil-gas/us-will-always-remain-crude-oil-importer](http://www.eureka.com.au/article/2013/11/1/oil-gas/us-will-always-remain-crude-oil-importer)



**US will always remain crude oil importer**  
MATT MUSHALIK | 1 NOVEMBER 2013  
Shale oil production isn't enough to eliminate US oil imports.

29/10/2013 US will always remain crude oil importer

<http://crudeoilpeak.info/us-will-always-remain-crude-oil-importer>

## **Track record**

Several billion dollars of taxpayer's and superannuation money could have been saved if governments had listened to my peak oil advice.

From the "I told you so" menu on my website:

In 2006 I had an exchange of letters and emails with the Queensland Minister of Transport and the Brisbane City Council in which I warned NOT to build the North South Bypass Tunnel

<http://crudeoilpeak.info/i-told-you-so/north-south-bypass-tunnel-clem7-brisbane>

Do. For Brisbane's Airport Link Tunnel

<http://crudeoilpeak.info/airportlink-brisbane>

X-City Tunnel in Sydney

<http://crudeoilpeak.info/cross-city-tunnel>

Lane Cove Tunnel in Sydney

<http://crudeoilpeak.info/lane-cove-tunnel>

Metro tunnels in Sydney

<http://crudeoilpeak.info/too-late-for-metro-tunnels>

Car dependent shopping centre Top Ryde in Sydney

<http://crudeoilpeak.info/top-ryde-shopping-centre>

## **Outlook and next candidates for tollway failures**

In December 2010 I advised the PR manager of Transurban, NOT to widen the M2 in Sydney

14/8/2012

Transurban does not pay back its debt

<http://crudeoilpeak.info/transurban-does-not-pay-back-its-debt>

21/10/2013

Sydney motorists pay 22% more for motorway widening

<http://crudeoilpeak.info/sydney-motorists-pay-22-more-tolls-for-motorway-widening>

## **Conclusion**

My peak oil research is ongoing. I recommend to consult my website for updates.

Prepared by Matt Mushalik, November 2013

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