

Norsk Yrkeshygienisk Forenings Årskonferanse. Trondheim
5.-7. November 2007

På etterskudd – kan vi redusere forspranget?

Halvor Erikstein

Yrkeshygieniker SYH / organisasjonssekretær

92810398 halvor@safe.no

SAFE Sammenslutningen av fagorganiserte i energisektoren

www.safe.no



Ikke mullaer denne gangen, men kjemisk helsefare..





Interpellasjon fra André N. Skjelstad (V) til arbeids- og inkluderingsministeren

Datert: 18.06.2007

Besvart: 08.10.2007 av arbeids- og inkluderingsminister
Bjarne Håkon Hanssen (A)

Referat

I den senere tid har vi sett en rekke saker hvor det er knyttet alvorlig mangler til håndtering av kjemikalier på arbeidsplasser. Det har vært en lang rekke tilfeller av yrkesskader knyttet til kjemikalier og det avdekkes stadig nye områder hvor det er sannsynlighet for at kjemikaliebruk på arbeidsplassen har medført varige helseskader. Helseskader knyttet til kjemikaliebruk kan derfor være undervurdert. Trolig er en del arbeidsplasser preget av en arbeidskultur som i for liten grad tar hensyn til helsefarene knyttet til stoffene som håndteres. Alvorlig miljøskade kan også oppstå dersom kjemikalier ikke håndteres på riktig måte. Bedre informasjon om skadevirkninger knyttet til bruk av kjemikalier kan være en måte å forbedre håndteringen på arbeidsplassene. Hva vil statsråden gjøre for å sikre at norske arbeidsplasser bedre håndterer kjemikalier og i større grad forhindrer helseskader?

DOK 8 forslag

dnl.no • Nyheter • Innvirkning

Sist oppdatert: Lørdag 03.11.2007, 11:11

Venstre vil ha svar på hvorfor de blir syke



SYKE OLJEARBEIDERE: Jan Terje Båttarn (t.v.), Harald Kristensen og Viggo Hortmann jobbet alle på Ekofiskfeltet i Nordsjøen. De er blant de mange oljearbeidere som har fremmet yrkesskadesak.

© scanpix/nyheter.no

Foreslår nasjonalt kompetansesenter for kjemikalieskader.

LES OGSÅ:

- **Olje-marerittet**



ASLE HANSEN
ash@dagbladet.no

Lørdag 03.11.2007, 09:45
oppdatert 11:11

(Dagbladet.no:)

Venstrerepresentantene Gunnar Kvassheim, Gunvald Ludvigsen og André N. Skjelstad leverer over helga et såkalt dokument 8-forslag til Stortinget.

«Det avdekkes stadig nye områder hvor det er sannsynlighet for at kjemikaliebruk på arbeidsplassen har medført varige helseskader (...) Stortinget ber regjeringen opprette et Nasjonalt kompetansesenter med kjemikalieskade og forskning som hovedanliggende,» heter det i forslaget.

- Viktig å være på alerten

Venstre mener at et slikt senter kan motvirke helseskade knyttet til kjemikaliebruk.

- De arbeidsmedisinske avdelingene sitter på mye kompetanse, men vi oppfatter



FORSLAGSSTILLER: Venstrepolitiker André N. Skjelstad vil at Stortinget skal opprette et nasjonalt kompetansesenter for kjemikalieskader.
Foto: Morten Holm/Scanpix



FORHOLDSREGLER: Billakkering kan være svært farlig dersom verneutstyret ikke er i

Det holder ikke med *bare* internkontroll



Ny rapport: Kjemisk arbeidsmiljø i petroleumsvirksomheten offshore 1.6.2007

http://www.ptil.no/Norsk/Helse+miljo+og+sikkerhet/Sikkerhet+og+arbeidsmiljo/7_rapport_kjemiskhelserisiko.htm

Det er langt fra
mistanke til
sikker
kunnskap

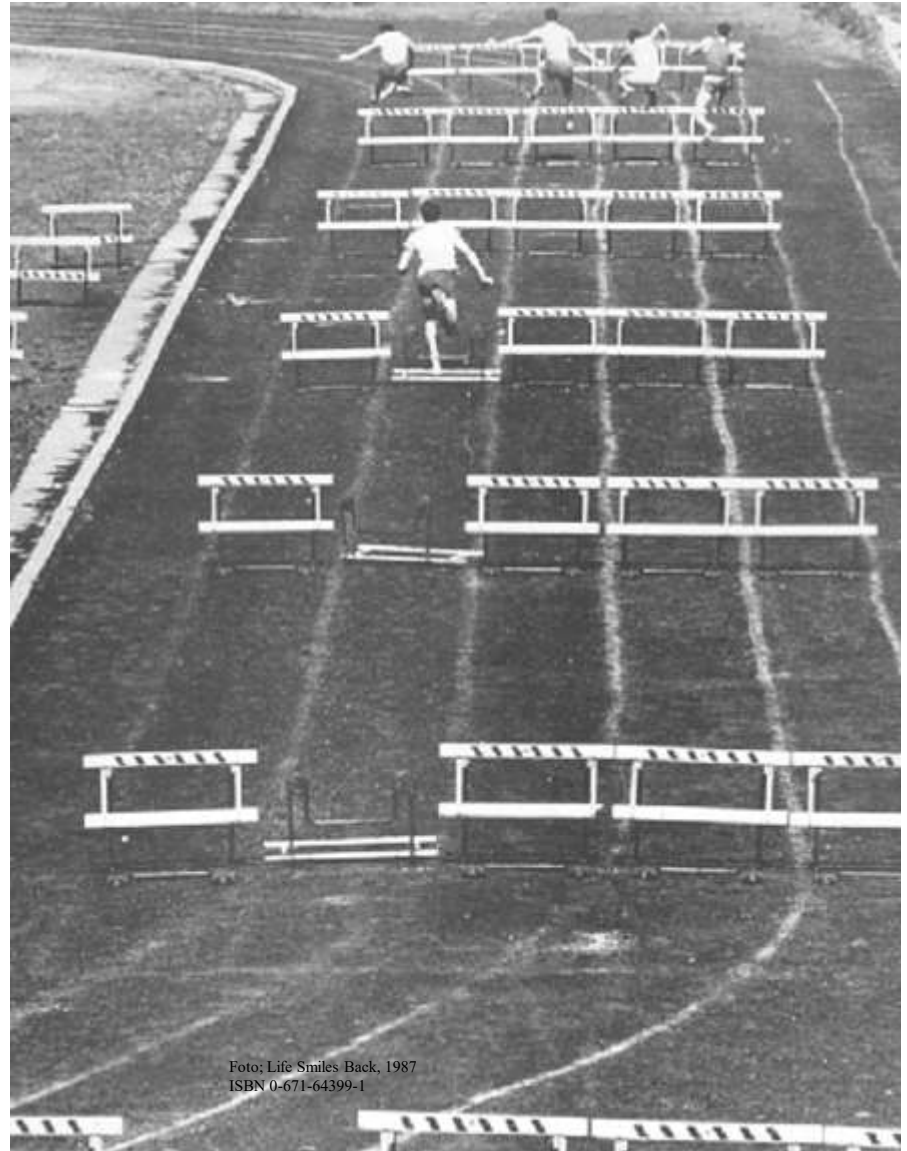


Foto: Life Smiles Back, 1987
ISBN 0-671-64399-1

Finger Prints



E.E.R.

THERE is no cause for worry when finger-print smudges or dirt spots appear on a wall painted with Dutch Boy white-lead. A little soap and water will remove them easily without harming the paint or marring the beauty of the finish. Painted walls are sanitary, cheerful and bright.

We carry a complete line of painting supplies including Dutch Boy white-lead, linseed oil, flattening oil, brushes and all other accessories.

Visit our store and let us help you plan your home decoration.

Dealer's Name and Address Here

No. DF-25

12. Fingerprints. This ad, one of several suggested to paint dealers, conveys to parents that white lead on interior walls is not only easy to clean but also sanitary for young children. Source: *Dutch Boy Painter* (August 1927), 117.

Kan vi lære av historien?

Annonse for for
blyholdig
innemaling USA
1927

<http://www.deceitanddenial.org/>

Volume Mixing Directions

DUTCH BOY SOFT PASTE WHITE LEAD

REPAINT WORK

OUTSIDE WOOD (INCLUDING WOOD SHINGLES)		BRICK, STUCCO, CONCRETE AND STONE		INTERIOR PLASTER, WALL BOARD AND WOODWORK	
FIRST COAT	FINISH COAT	FIRST COAT	FINISH COAT	FIRST AND FINISH COATS (FLAT FINISH)	
					
DRIER: Add $\frac{1}{4}$ pint to each gallon of paint, if raw linseed oil is used. Boiled linseed oil requires no drier. *For flat finish on shingles use Lead Mixing Oil instead of linseed oil in this coat. No drier required.		NO DRIER REQUIRED *For gloss finish use linseed oil instead of Lead Mixing Oil in this coat. Use drier as per note opposite.		NO DRIER REQUIRED	

NEW WORK

USE PROPER PRIMING COAT BELOW FOLLOWED BY TWO COATS MIXED AS PER DIAGRAMS ABOVE

OUTSIDE WOOD (INCLUDING WOOD SHINGLES)	INTERIOR WOOD	BRICK	STUCCO, CONCRETE AND STONE	INTERIOR PLASTER AND WALLBOARD
3 Parts WHITE LEAD 4 Parts LINSEED OIL * 2 Parts TURPENTINE	3 Parts WHITE LEAD 3 Parts LINSEED OIL * 2 Parts TURPENTINE	3 Parts WHITE LEAD 5 Parts LINSEED OIL * 1 Part TURPENTINE	4 Parts WHITE LEAD 3 Parts LINSEED OIL 3 Parts LEAD MIXING OIL	DUTCH BOY WALL PRIMER (OR) 3 Parts WHITE LEAD 4 Parts LEAD MIXING OIL
* Add $\frac{1}{2}$ pint drier to each gallon of paint if raw linseed oil is used. Boiled oil requires no drier.				



WHEN you want to get the most for the money you spend on interior paint, don't ask "Is this paint durable?" Say, "Is it really washable?" Durability alone is not enough. You have probably had many experiences with paint that didn't wear off but from which marks and smudges wouldn't wash off. So re-painting time came much sooner than was expected.

Flat paint made with Dutch Boy White-Lead and Dutch Boy Lead Mixing Oil has all the durability for which white-lead is famous. In addition, this paint is washable in the full sense of the word. Its beauty is not impaired by hard scrubbing. These scrubbing really get you somewhere. Stubborn stains and dirt actually do "come out in the wash".

For proof, take a look at the test panel above. It was walked on for a week. Then it was smeared with

grease, stained with mercury-chrome, streaked with pencil, crayon and lipstick, daubed with shoe blacking. But despite this hard treatment, washing with soap and water left the panel looking as clean as when first painted.

Now consider briefly this paint's many other advantages. It has all white-lead's characteristic richness, solidity and depth, a point of unusual beauty. Because of its excellent sealing power, it stops suction and hides fire cracks.

Finally, this paint gives you all-

round economy. It has high coverage (1000 sq. ft. per gal. on smooth plaster), mixes quickly, spreads easily. Add up those three qualities, and you have far first cost. Then add long wear and real cleanliness, and you have low cost per year.

NATIONAL LEAD COMPANY

121 Broadway, New York / 115 8th St., Buffalo, N.Y. / 400 N. Chicago St., Peoria, Ill. / 1111 West Third St., Cleveland / 777 Vine St., St. Louis / 1010 14th St., San Francisco / National Bureau of Paints, 100 Albert St., Boston / National Lead & Oil Co., 401 Federal St., South Norwalk, Conn. / John F. Smith & Son, Inc., Wilkes-Barre, Pa. / Philadelphia



The Drop of Solder...



that puts a Cow in your Kitchen Cupboard

What's the final step in perfecting the purity of the component or evaporated milk that you find so handy?

It's a little drop of solder... that seals the tiny hole through which the can is filled.

Solder, too, is the vital little thing that helps keep tin containers from "leaking at the seams"... an amazing secret in bringing the item to your kitchen, the oil flows to your ear.

In fact, much of the modern world as you know it today would "fall apart" but for this man-made metal alloy. Electric power, from the largest to the smallest generation, would be no more. Phones, trains and ships would stop. Household appliances would not work. Automobiles for quick delivery would fail. All communications by radio, telegraph and telephone would be stifled.

As an example, when you dial a phone number even an automatic exchange, your promised calls

come through as never as soon soldered connections joining the maze of wires to intricate equipment. And they must be "good connections". That's why they're soldered... and why good solder must be used.

For, while you can find on commonest solder stores for solder alone its first intended use in human days, he has learned this: and only one thing different solder needed to do today's amazing jobs, but the indispensable factors of such are their absolute purity and fitness for the work at hand.

These, each widely differing even including ingot purest and joining radio tubes (extra-demand special, highly refined solders. And methods of application range all the way from the familiar hand soldering iron to automatic, electrical heat induction.

Typically important and varied are the special "Solders" needed to help close the surface to be joined and make the solder cling.

That's why National Lead's extensive experience with solders and fluxes for every use is such good assurance to industry of well-soldered jobs. It has resulted in a broad line, including Dutch Boy Solder and "Solder" Fluxes, as well as specialty products such as "Fluxite", described at the lower left.

Whether your industrial soldering needs, National Lead invites your inquiry. This one organization can supply not only the proper solder in the most efficient form and size—as well as the ideal flux to go with it—but also expert advice on the method to be used. Address National Lead Company, 111 Broadway, New York 6, N. Y.



NATIONAL LEAD Company

a great name in SOLDER and many other products

"Minors, molten, and refined of Lead, zinc and other ores... Many factories of Lead, tin, zinc, and various pigments. Solder and solder alloys, brass, bronze and babbitt bearings; sheet lead, lead pipe, solder, paint, and other lead products; non-ferrous alloys; oil well drilling mud materials; acid reclaiming equipment.



16. The drop of solder. Even after World War II, lead was promoted as a boon to children. Here, National Lead tells parents that lead solder is not a problem even in canning evaporated milk meant for babies. Source: *National Geographic* 48 (April 1937), 35.

Announce National Geographic, 1937

Avisannone 1946



Children played in clouds of DDT sprayed on beaches and in neighborhoods in the 1950s.

**Eksempel på
farlig og forfeilet
substitusjon:**
Isocyanatbasert
maling ble lenge
markedsført som
”miljøvennlig” pga
lavt innhold av
VOC. Isocyanater
ble derimot ikke
nevnt.....

NORSK
olje
REVY

this issue with
ARCTIC NEWS-RECORD

NORWEGIAN
OIL REVIEW
6 1990
Alert and independent

Noen har naturlig beskyttelse.
Andre foretrekker
Carboline 834 HS VOC+



VOC+ maling avgir mindre helsefarlige gasser enn tradisjonelle malinger fordi den har høyt lørrstoffinnhold. Carboline 834 HS VOC+ (Volatile Organic Content) sikrer verdier og tar samtidig vare på naturen.

carboline

-Naturlig beskyttelse
CARBOLINE NORGE A/S
Postboks 170, 3001 Drammen
Telefon: (03) 8412 55
Telefax: (03) 84 13 16

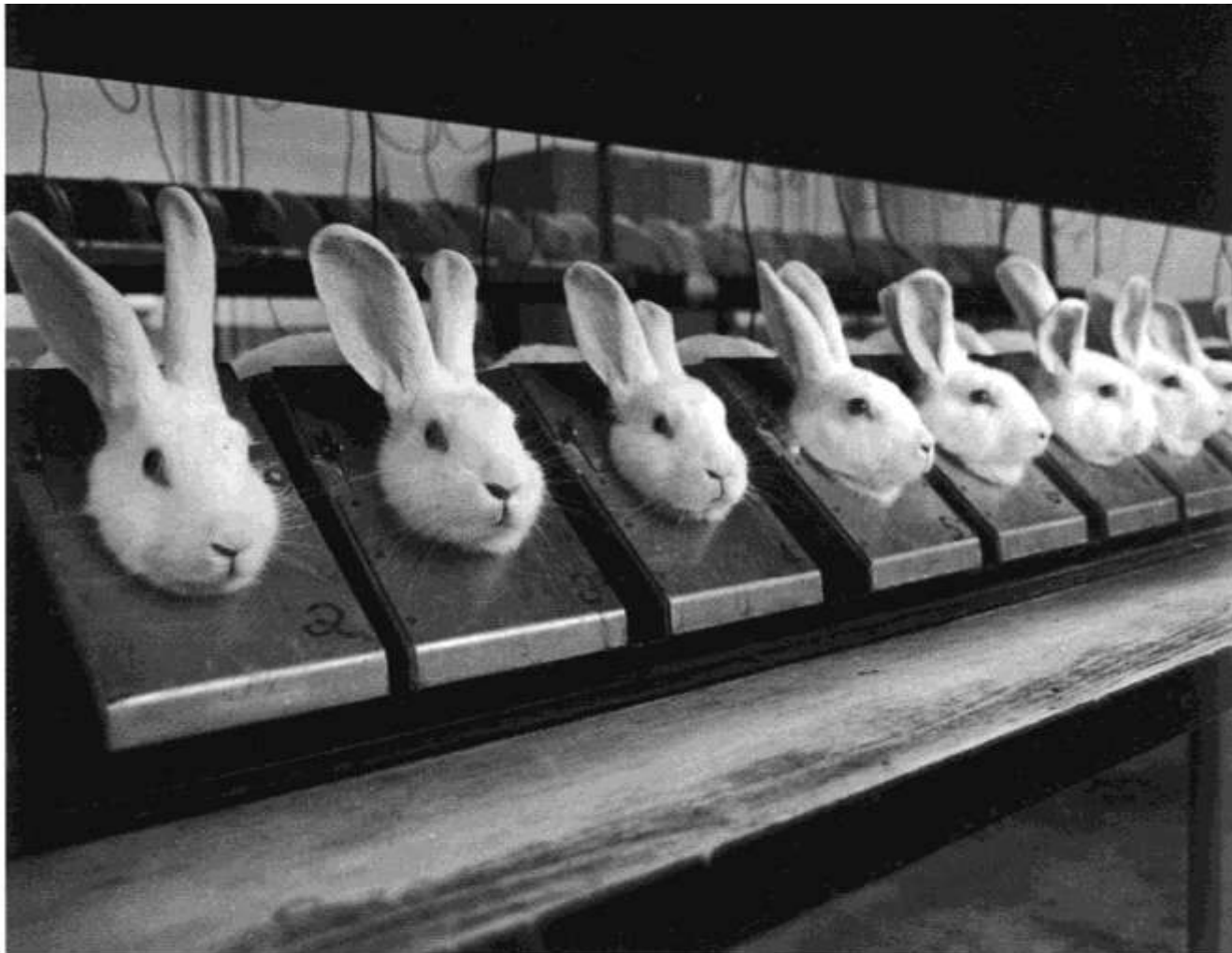
Kjemikalier utvikles og framstilles under trygge kontrollerte forhold, men hvor ender de?



Ved vegs ende har kjemikaliene vært gjennom mange ukontrollerte ledd



Det fort gjort og bli ufrivillig prøvekanin



Alices forferdelig verden. En rad hvite kaniner gjennomgår pyrogentesten på et kjemisk forskningssenter, 1956. Målet var å undersøke om medisinen var egnet for mennesker. Om den var egnet for kaniner, var det få som tenkte på.

<http://www.dagbladet.no/nyheter/2007/04/09/497251.html>

Start Bokmerker PageRank 177 blokkert ABC Kontroller Send til

er: Dagbladet.no » Nyheter » Innenriks

Sist oppdatert: Tirsdag 1

2400
4 00 00 00

Nekter å gi Harry en ny sjanse

2 døgn

SIDEN

TER

iladetTV

RT.no

ALL

UR

DIS.no

IN SIDE

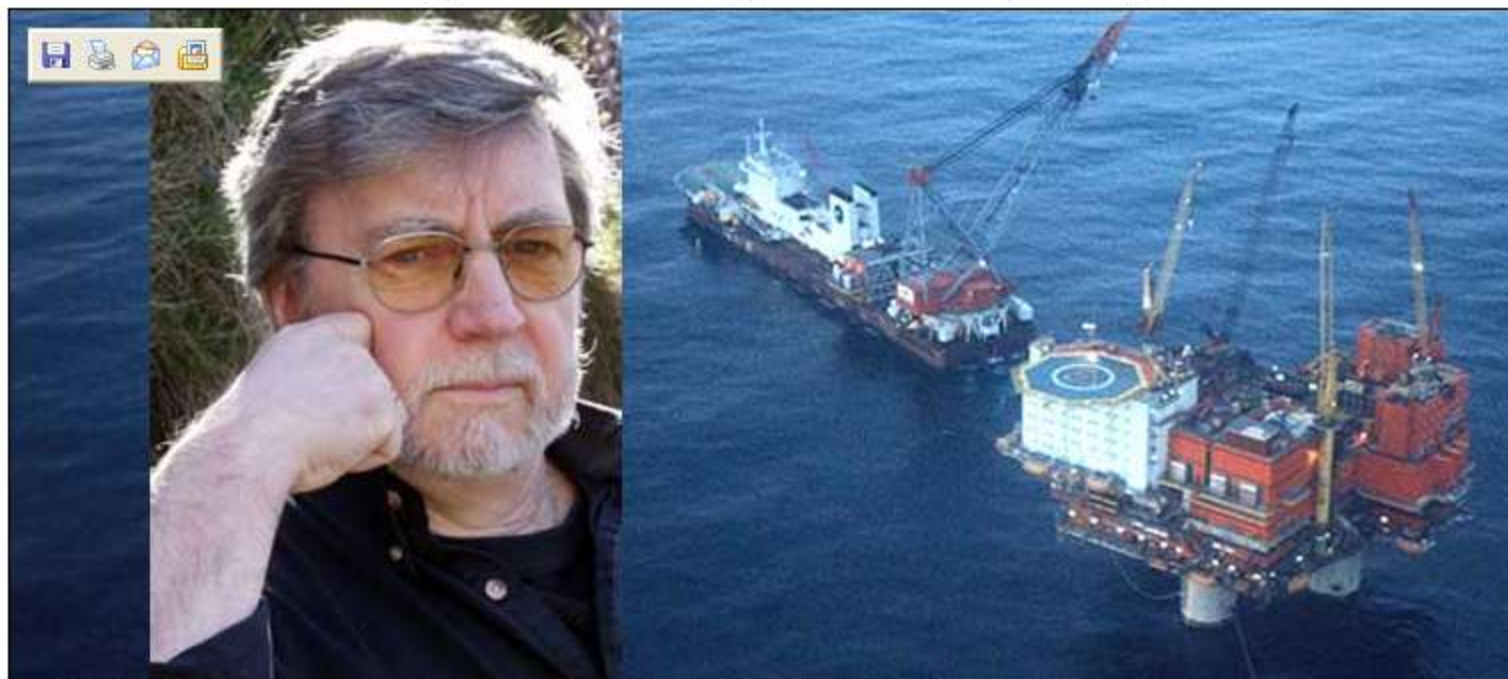
JSKAP

ASINET

LOGG

ATT

ISING.no



KJEMPER VIDERE: Tidligere oljearbeider Harry Stiegler Brevik lar seg ikke knekke av nok et trygdenederlag.

Foto: Anders Tøsse/Scanpix

Trygderetten vil ikke vente på forskningsresultatene som kan vise hvorfor han er blitt syk.

LES OGSÅ:

Olje-magittet



<http://www.dagbladet.no/nyheter/2007/04/09/497251.html>

Skyttergrav, eller.....



...åpent lende?



SPECIAL ISSUE

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INTERNATIONAL JOURNAL of OCCUPATIONAL and ENVIRONMENTAL HEALTH

*Polluted river*

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Volume 11, Number 4
October/December 2005

Temanummer: Corporate Corruption of Science

Shell saken



<http://web3.aftenbladet.no/lokal/article524872.ece>

Commentary

Manipulated Data in Shell's Benzene Historical Exposure Study

DAVID EGILMAN, MD, MPH, SCOUT, PHD, LERIN KOL, LEA ANNE HEGG,
SUSANNA RANKIN BOHME, AM

http://www.ijoe.com/pfds/IJOEH_1302_Egilman.pdf



Bisfenol A - diabetes

Research | Review

Large Effects from Small Exposures. I. Mechanisms for Endocrine-Disrupting Chemicals with Estrogenic Activity

Wade V. Walshons,¹ Kristine A. Thayer,² Barbara M. Judy,¹ Julia A. Taylor,¹ Edward M. Curran,¹ and Frederick S. vom Saal²

¹Department of Veterinary Biomedical Sciences and ²Division of Biological Sciences, University of Missouri-Columbia, Columbia, Missouri, USA

Termisk dekomponering av epoksy – gir bisfenol A.
Kan eksponering ved varmt arbeid ha betydning?

<http://www.ehponline.org/science-ed/2006/bpa.pdf>

Før



Slik blir du allergisk.
Vil bli storeksportør av syke gjestearbeidere?





Sandblåsing

- Energien ved sandblåsing svarer til kontinuerlig avfyring av et haglegevær

Verneutstyr som skader. Det går seint framover



26 januar 2007 .Bruk av Viking Safe-Blast er ulovlig
<http://www.safe.no/news.cfm?id=119806>
<http://www.dagbladet.no/nyheter/2006/04/26/464555.html>



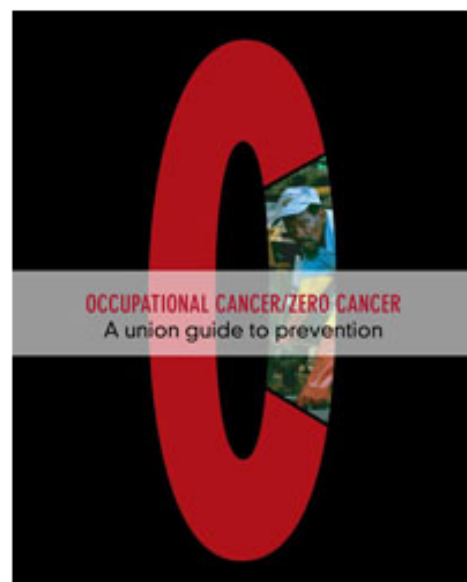
The Noise in Your Ears: Facts About Tinnitus

<http://www.nidcd.nih.gov/health/hearing/noiseinear.asp>

Ototoksiske kjemikalieri arbeidsmiljøet

<http://chppm-www.apgea.army.mil/documents/FACT/51-002-0903.pdf>

hazards magazine

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WORK CANCER PREVENTION KIT

[Home](#) • [Part 2](#) • [Part 3](#) • [Part 4](#)

RELATED RESOURCES

OCCUPATIONAL CANCER/ZERO CANCER

Work cancer prevention kit: Part 1

Occupational cancer briefing - Work started it. Unions will stop it. March 2007

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- Section 2 [Occupational cancer, the workplace's deadly secret](#)
- Section 3 [Cancer exposure](#)
- Section 4 [Addressing injustice](#)
- Section 5 [Global priority – ILO conventions](#)
- Section 6 [Resources and references](#)

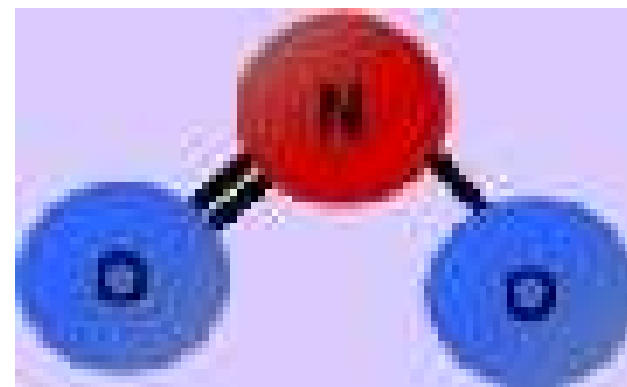
SECTION 1: INTRODUCTION

Burying workplace cancers

<http://www.hazards.org/cancer/preventionkit/part1.htm>

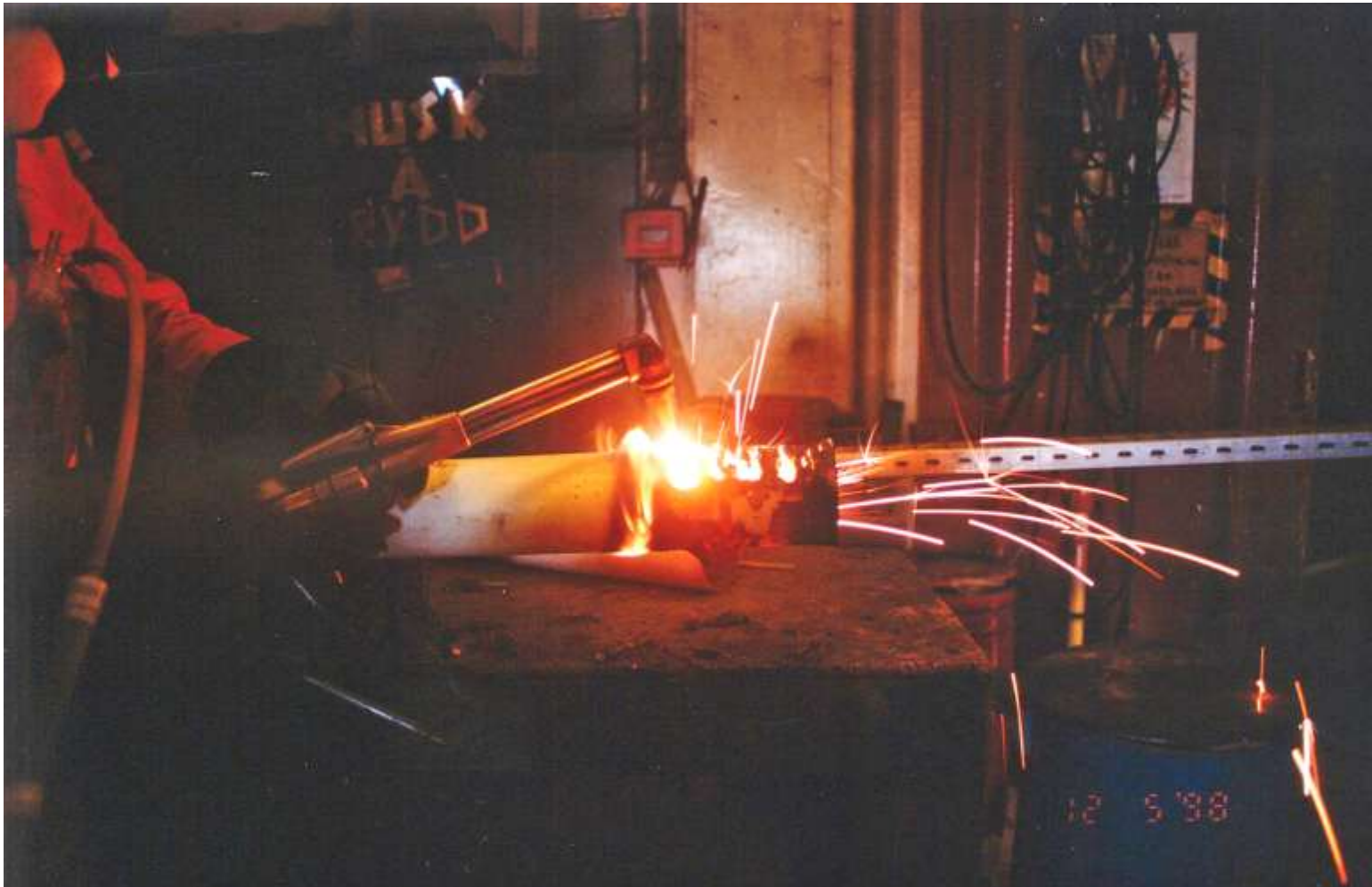
Revisjon av administrativ norm for NO₂

- Reduksjon av norm for NO₂ fra 2 ppm til 0,6
- Høringsbrevet "Grunnlag for fastsettelse av administrativ norm for nitrogendioksid" fra Arbeidstilsynet finnes på;



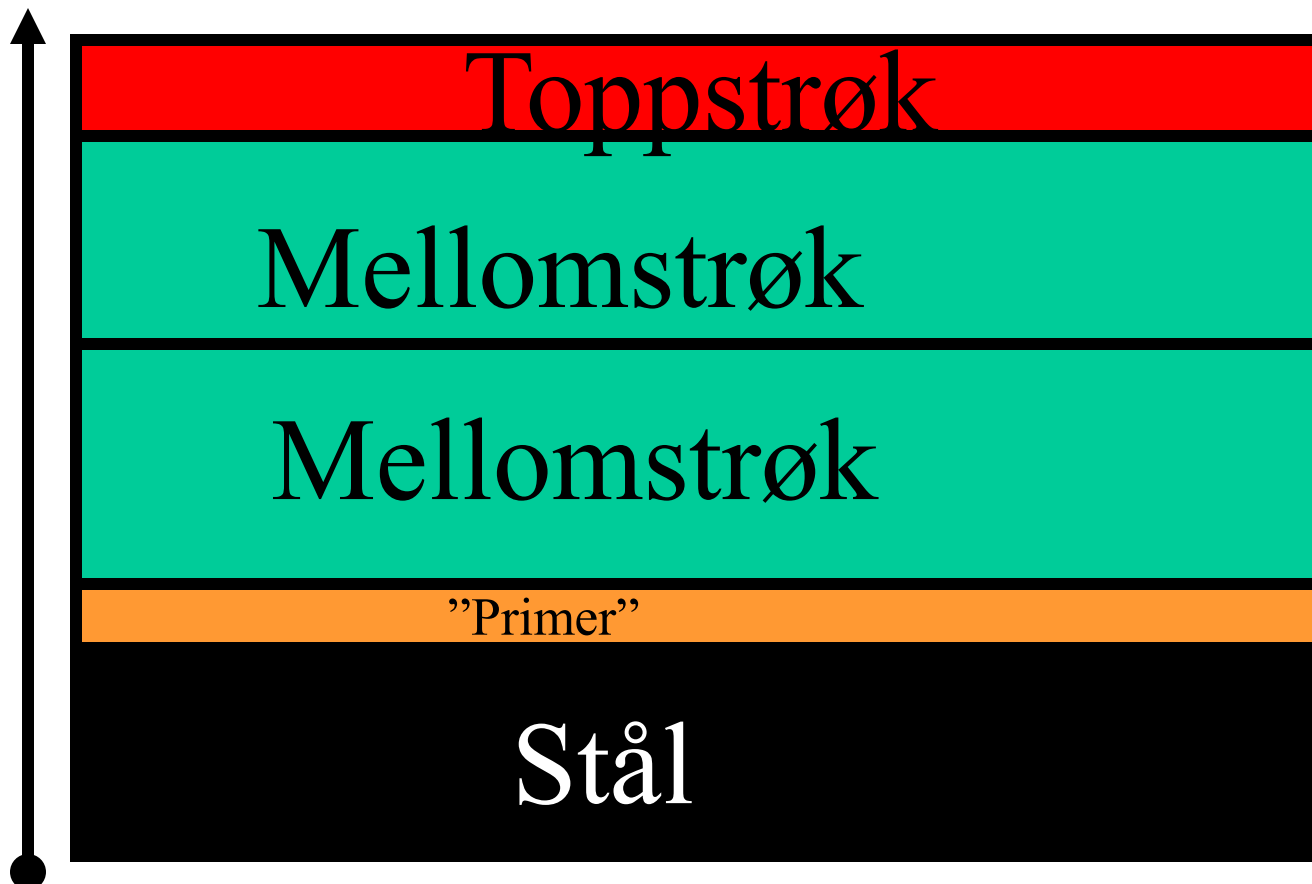
<http://www.arbeidstilsynet.no/binfil/download.php?tid=42537>

Brenning på maling. Hva kan skje?



Eksempel på oppbygging av malingssystemer

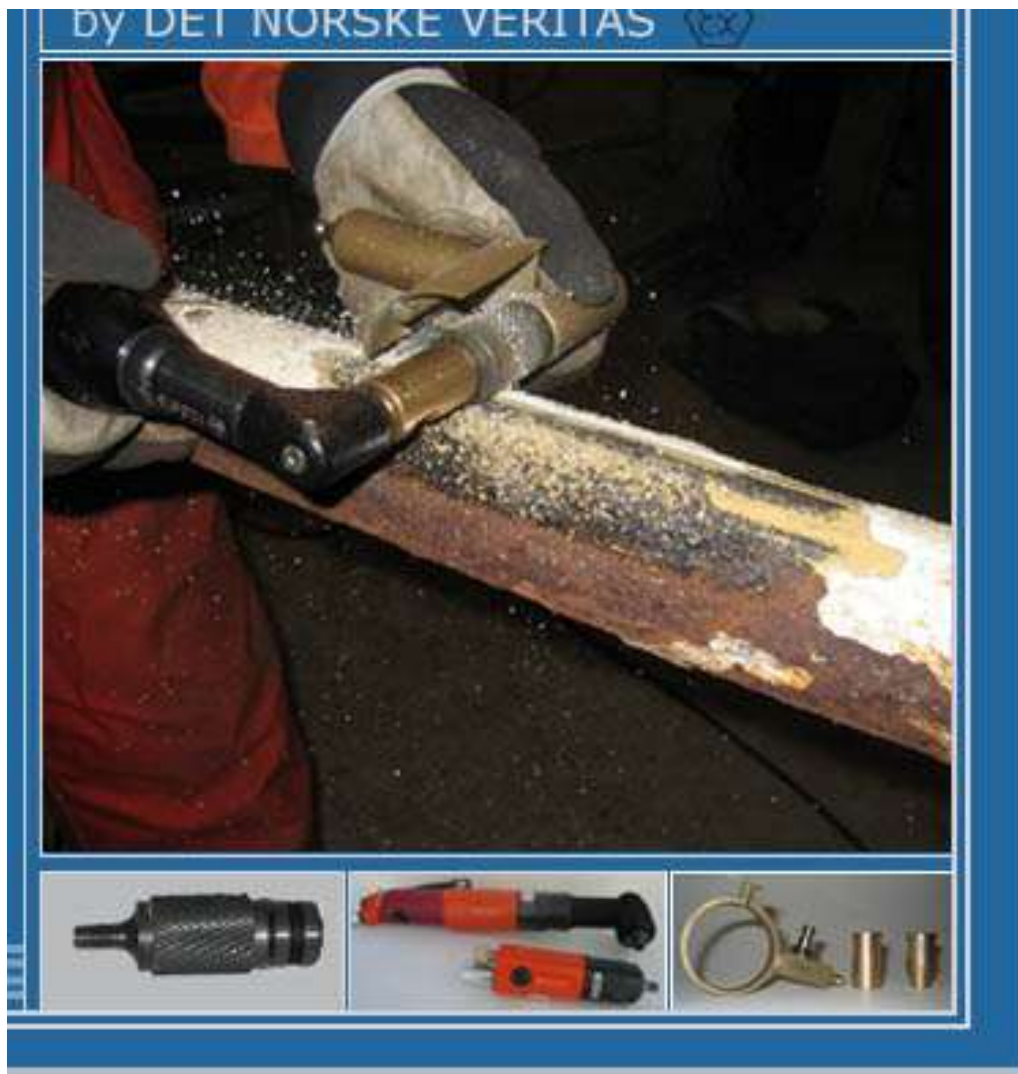
400 mikrometer



?

Polyuretan,
fluoruretan
epoxy
polyester,
vinyl (pvc),
akryl,
alkyd,.....

400 mikrometer tilsvarer 0,4 liter på 1m²



Teknologisprang for bedre arbeidsmiljø Side 32 – 33
http://www.safe.no/dokumenter/Safe3_lavoppl.pdf
www.safety-tools.net/products.htm

Eksempel på nyttig verktøy

The Institut de recherche Robert-Sauvé en santé et en sécurité du travail (IRSST)

The screenshot shows the IRSST website interface. At the top, there is a 'Sitemap' link and a search bar with a 'GO' button. A navigation menu on the left lists various site sections, with 'Laboratory services' highlighted. The main content area features a title 'Mixtures of substances in the workplace: utility for evaluating the chemical risk (Calculation of the Rm)' and a 'Send this page to a friend' link. Below the title, there is a 'Utility' section with a detailed description of the tool's purpose and usage, followed by a 'Disclaimer' section. The website has a yellow and brown color scheme.

Sitemap

SEARCH ON THE SITE GO

Home
About the IRSST
Research priorities
Research projects
Publications and tools
Laboratory services
Knowledge transfer
Scholarships
Grants
Press releases
Useful links
Job offers
OHS Calendar
Opération JEUNESST
TMS 2008
Vibration 2009

Info labo Guides **Utilities** Lists Services QC Fibres Accreditations Contact us Comments

Send this page to a friend

Mixtures of substances in the workplace: utility for evaluating the chemical risk (Calculation of the Rm)

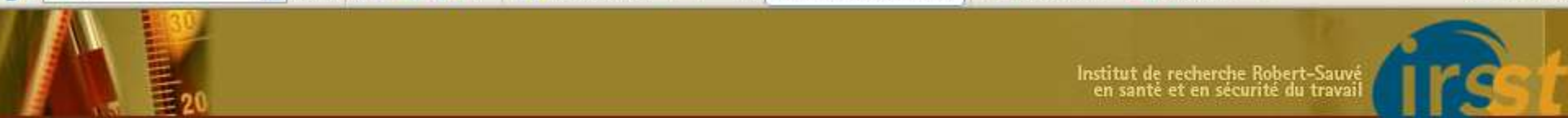
Utility

Exposure to mixtures of chemical substances in the workplace raises questions. Organizations such as the ACGIH® in its Chemical Substance TLV® Committee and much legislation make the recommendation that the presence of all the contaminants that have similar effects on the same organs or systems of the human body be taken into account. In this case, it is recommended that the exposures be added rather than considered individually... unless it is established otherwise... the interactions must then be taken into account (synergy, potentiation, antagonism...).

The utility that you are preparing to use integrates the results of a research project on toxicological interactions. The project was carried out in 2 phases and the reports are available on the IRSST's Web site : ([Phase 1](#) et [Phase 2](#)).

Disclaimer

This utility is an aid in decision-making made available to occupational health professionals. It informs them about the additivity or interaction potential between chemical substances in a mixture found in the workplace. *It cannot replace the informed judgement of an occupational health professional.*



DJS - IRSST/UdeM 2005.?

No	Product	Permissible Exposure Limit (PEL)	Exposure (E)	E / PEL
P1	Barium sulfate (Respirable dust)	TWA : 5 mg/m ³	2	40%
P2	Benzene	TWA : 3 mg/m ³	1	33.3%
P3	Cadmium elemental and compounds (as Cd)	TWA : 0.025 mg/m ³	0.01	40%
P4	Xylene (o-,m-,p- isomers)	TWA : 434 mg/m ³	150	34.6%
P5	n-Hexane	TWA : 176 mg/m ³	50	28.4%
P6	Nitrogen dioxide	TWA : 5.6 mg/m ³	3	53.6%
P7	Tri-o-cresyl phosphate	TWA : 0.1 mg/m ³	0.02	20%
P8	Chromium (VI) compounds, Water soluble (as Cr)	TWA : 0.05 mg/m ³	0.01	20%

Σ

Φ

First level analysis: Result of the examination of the secondary literature

5 combinations found

Vi trenger symptombasert utredning av de yrkesskadde – ikke eksponeringsbasert, hvor manglende måledata tolkes som null eksponering.

The Institut de Recherche Robert-Sauvé en Santé et en Sécurité du Travail (IRSST)

Har utarbeidet et dataverktøy som er enkelt og viser ulike kjemikaliers helseeffekter

http://www.irsst.qc.ca/files/outils/intertox/jsndx_en.htm

P5 : n-Hexane

P6 : Nitrogen dioxide

P7 : Tri-o-cresyl phosphate

P8 : Chromium (VI) compounds, Water soluble (as Cr)
 | Carcinogen according to one or more recognized organizations : **ALARA** ?

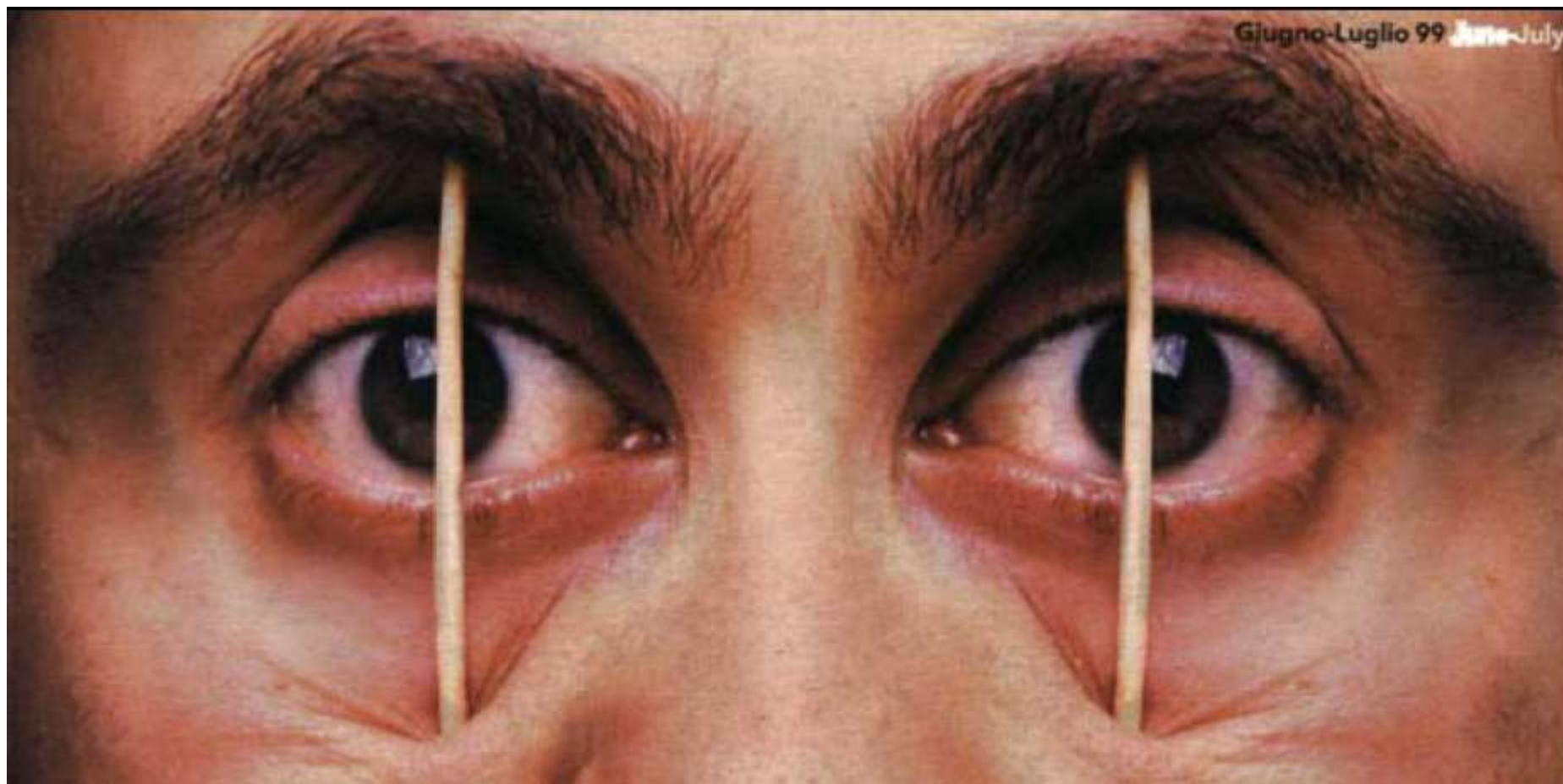
Toxicological classes usage summary																																	
	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20	C21	C22	C23	C24	C25	C26	C27	C28	C29	C30	C31	C32	
P1			X																														
P2																																X	
P3			X										X										X									X	
P4	X	X																	X														
P5																				X							X						
P6	X	X	X																														
P7																		X		X													
P8		X	X								X		X														X					X	
	2	3	4								1		2					1	1	2			1				2					3	

Second level analysis, function of the examination of the primary literature

Couple

• http://www.irsst.qc.ca/files/outils/intertox/jsndx_en.htm

Skiftarbeid og overtid: Betydning for vurdering av eksponering?



Notat til Sikkerhetsforum: Internettressurser på søvn, skift, sikkerhet, helse og kvalitet. Oppfølging etter innlegg på møte 5. desember 2002.
<http://www.safe.no/dokumenter/Notat%20til%20Sikkerhetsforum%20om%20internettressurser%20p%C3%A5%20skiftarbeid.doc>
Anbefales; Ptil Rapport om HMS-konsekvenser av arbeidstidsordninger og skiftarbeid
http://www.ptil.no/Norsk/Helse+miljo+og+sikkerhet/Sikkerhet+og+arbeidsmiljo/7_rapport_prosjektarbeidstidsordninger.htm

Naturlov; Naturen er slett ikke så enkel som vi kunne ønske

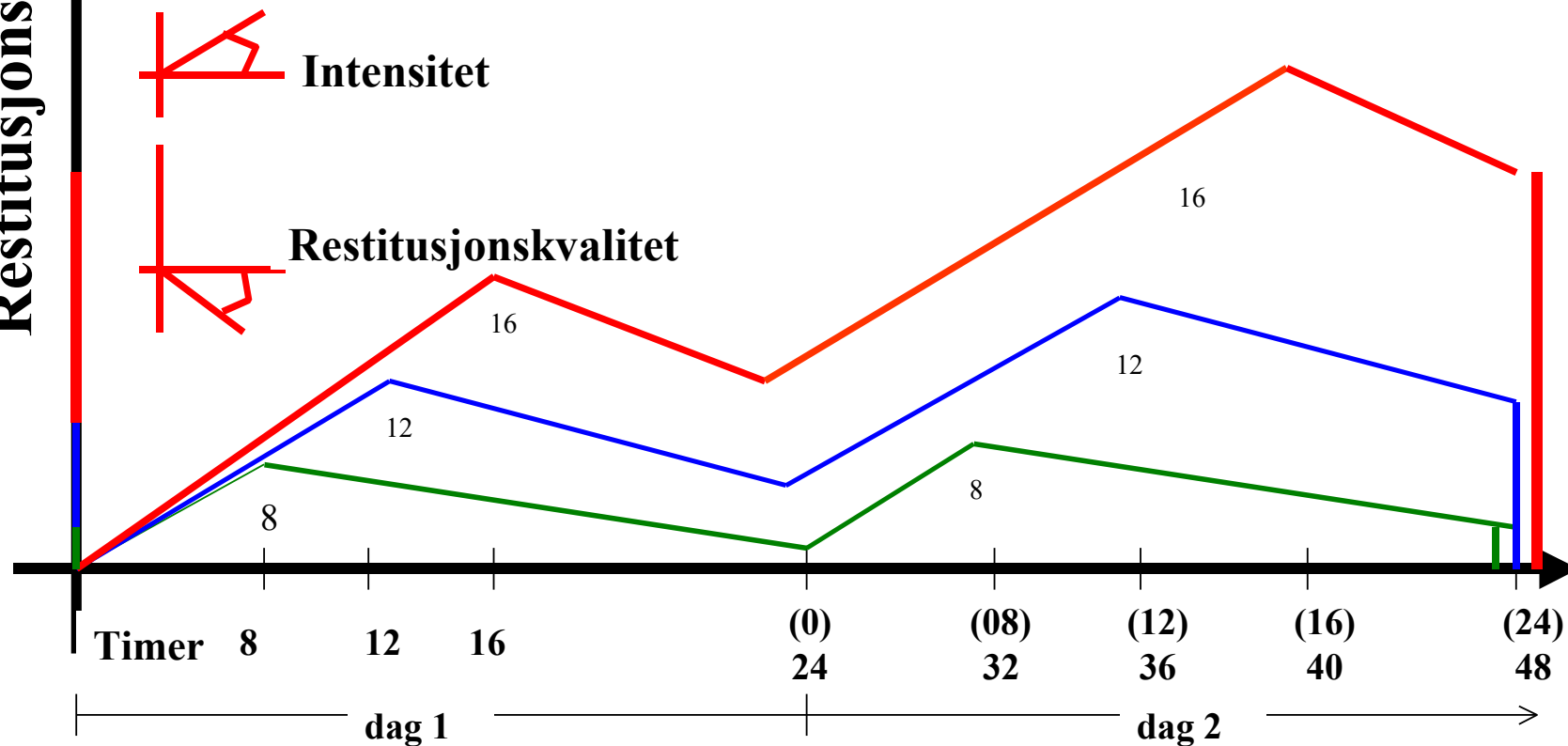
Restitusjonsunderskudd

VURDERING AV BELASTNING: YTEGRENSE OG TÅLEGRENSER

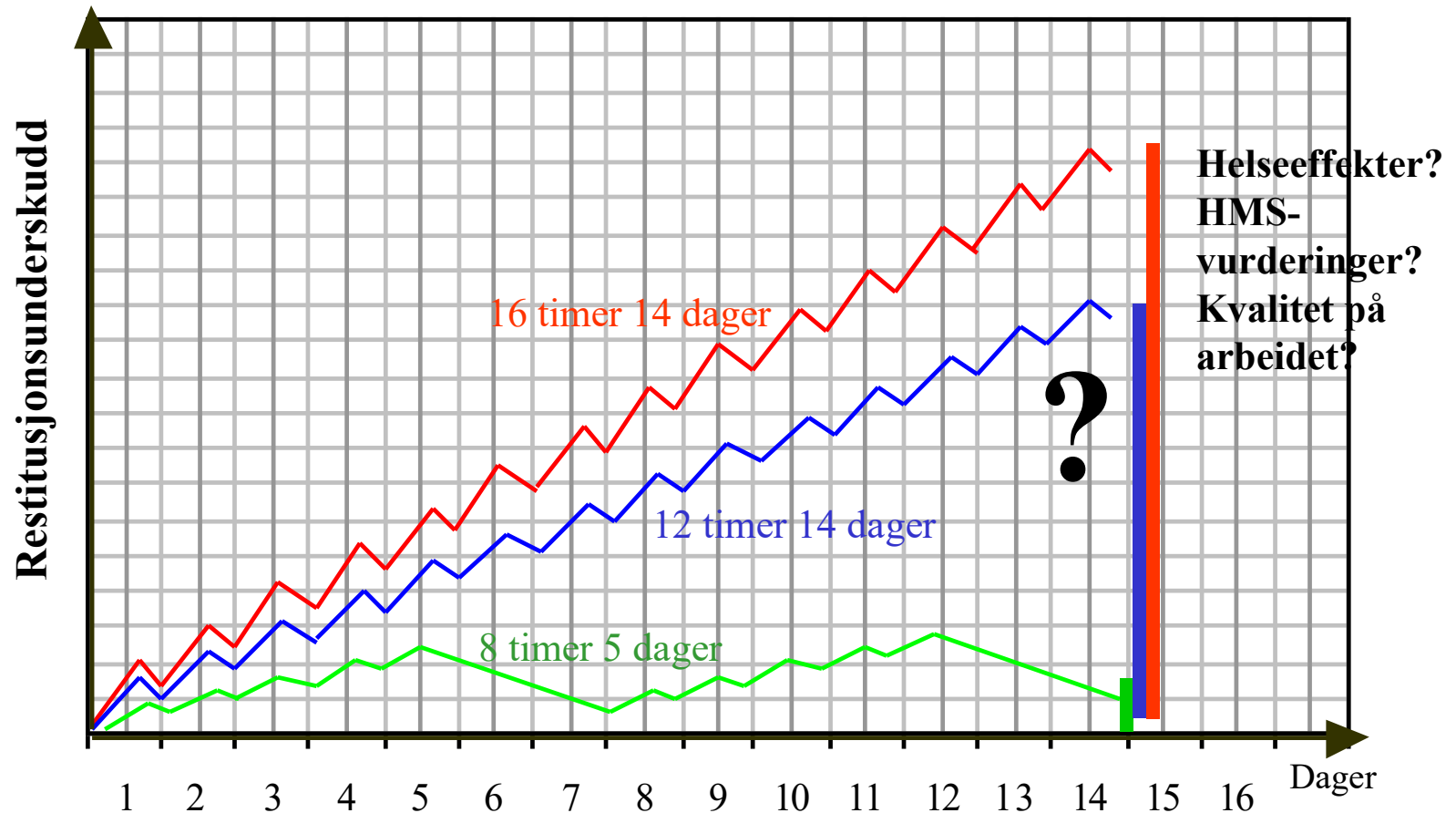
Restitusjonsunderskudd: Funksjon av (arbeidstid, arbeidsbelastning, arbeidsintensitet, kjemisk eksponering, støy eksponering, restitusjonskvalitet.....) → Gir ulike helseeffekter og påvirker HMS

Intensitet

Restitusjonskvalitet



Vurdering av belastning; Hvilken effekt har mange dagers belastning på helse og sikkerhet?





SKUP

Stiftelsen for en Kritisk og Undersøkende Presse

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Stiftelsen for en Kritisk og Undersøkende Presse (SKUP) har som formål å

Slik søker du Sandberg-stipendiet



Tore Sandberg får æresstipend oppkalt etter seg på SKUP-konferansen 2007. Stipendiet er på 100 000 kroner, og finansieres med midler fra Fritt Ord og Schibsted. Foto: William E. Graham.

Tore Sandbergs Gravestipend lyses ut for første gang.
 Stipendiet er på 100.000 kroner og tildeles etter søknad.

[Les mer](#)

Frykter dårligere gravevilkår

Updated news blog on GIJ2008 Lillehammer

Global Investigative Conference

SISTE NYHETER

02.11.2007
 Slik søker du Sandberg-stipendiet
 30.10.2007
 Frie medier-konferanse med fokus på Kina før OL
 24.10.2007
 Frykter dårligere gravevilkår
 20.03.2007
 Norsk Folkehjelp støtter SKUP-vinneren
 19.03.2007
 Grave-sjefen
 19.03.2007
 – Utfordring med skjulte penger

SKUPS NYHETSAGENT

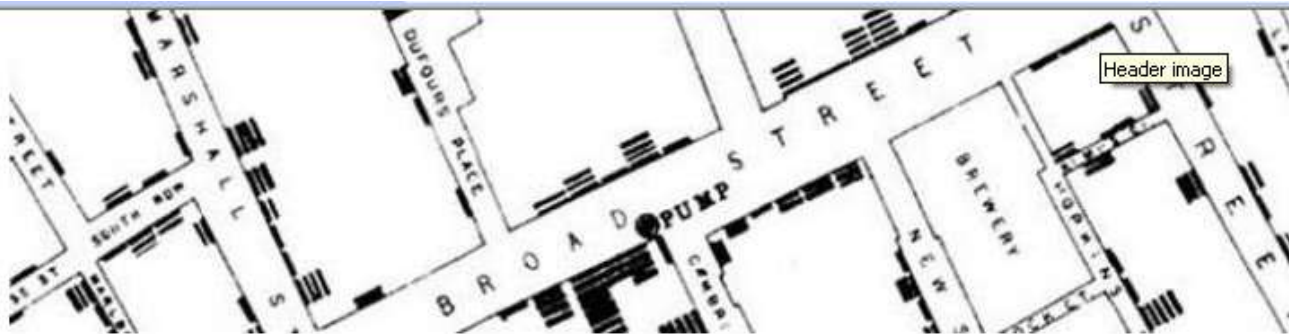
Fikk napp på nett (Forbruker.no)
 04.11.2007 00.37
 Manipulert virkelighet (Sarpsborg Arbeiderblad)
 03.11.2007 06.33
 Til sungs med fienden (Dagbladet)
 03.11.2007 06.02
 PFU frikjenner AN (Radio 3)
 02.11.2007 13.29
 Brøt ikke god presseskikk (Avisa Nordland)

<http://www.skup.no/>

http://www.skup.no/Metoderapporter/2005/06-Kvikksolvjentene_-_NRK_Brennpunkt.doc

http://www.skup.no/Metoderapporter/2005/18-Kjemisk_helsefare_-_Dagbladet.doc

Svært bra blogg



The Pump Handle

A water cooler for the public health crowd



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Gazette's Ken Ward Featured on EXPOSE

Saturday, November 3rd in [Confined Space @ TPH](#), [Mining](#), [Occupational Health & Safety](#), [Regulation](#) by [cmonforton](#) | [No comments](#)

The *Charleston Gazette's* Ken Ward, one of the few reporters in the country who writes consistently about worker health and safety issues, is featured on *EXPOSE: America's Investigative Reports*. The episode entitled "[Sustained Outrage](#)" depicts Ward's approach to covering coal mine disasters like the 2006 Sago tragedy:

"When other reporters are zigging, I'm zagging."

describing his talent for investigating these fatalities well beyond the headline and long after the cameras are turned off. The 24-minute episode describes how Ken Ward created a database using information from more than 300 MSHA investigation reports covering the last 10 years. His [story](#) "Disasters

<http://thepumphandle.wordpress.com/>

U.S. Chemical Safety Board www.csb.gov

Adresse <http://www.csb.gov/index.cfm>

Google Start Bokmerker PageRank 175 blokkert ABC Kontroller Send til

U.S. Chemical Safety and Hazard Investigation Board



An independent federal agency investigating chemical accidents to protect workers, the public, and the environment

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CSB NEWS

CSB Proceeding with Barton Solvents Explosions and Fire Assessment, Investigative Team Returning to Site Today
Board Member William E. Wright Named Interim Executive of CSB
CSB Releases New Safety Video, "Reactive Hazards: Dangers of Uncontrolled Chemical Reactions," Includes Synthron Animation, Three Others
Final CSB Report on Synthron Explosion Finds Inadequate Safety Controls for Chemical Reaction Hazards
CSB Investigative Team Heading to Major Gas Cylinder Explosion Site in Dallas, Texas
CSB Releases Videotaped Farewell Interview of Departing Chairman Carolyn W. Merritt
President to Nominate New CSB Chairman, Board Member



Click here to view new CSB safety video on reactive chemical hazards, featuring computer animations of accidents at Synthron, BP Amoco, MFG, and First Chemical.

CSB CURRENT INVESTIGATIONS

Southwest Industrial Gases Inc. Fire and Explosions, Dallas, TX
Barton Solvents Explosions and Fire, Valley Center, KS
Valero Refinery Propane Fire, Sunray, TX
Little General Store Propane Explosion, Ghent, WV
CAI/Arnel Chemical Plant Explosion, Danvers, MA
EQ Hazardous Waste Plant Explosions and Fire, Apex, NC



July 10: Chairman Merritt testifies before Senate subcommittee on the lessons from five years of board investigations. Click here for Senate webcast.

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GCAQE

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Global Cabin Air Quality Executive

» Welcome!

The Global Cabin Air Quality Executive (GCAQE) is the leading organization globally representing air crew with regard to cabin air quality, specifically contaminated air issues and representing over 400,000 aviation workers globally in 3 continents.



GCAQE members have been actively involved in working with crews, global experts, scientists, doctors and the aviation industry for many years on this subject, including being members of several international committees such as the FAA OHCRA project, ITF, SAE and ASHRAE committees.

NAVIGATION

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LATEST NEWS

- [International Transport Workers' Federation states: Toxicity investigation 'a wasted](#)

<http://www.gcage.org/>

SPECIAL INVESTIGATION

AIR SICKNESS

- Passengers, crew exposed to toxic fumes from engines
- Qantas flight engineer falls ill as gas engulfs cabin

By MATTHEW BENNS

FLIGHT crews have been overcome by toxic fumes on Australian jets, the latest on a Qantas flight from Los Angeles to Auckland.

Senior pilots warn that crew and regular passengers could suffer serious long-term illnesses unless the aviation industry admits jet airliners worldwide have a critical design flaw.

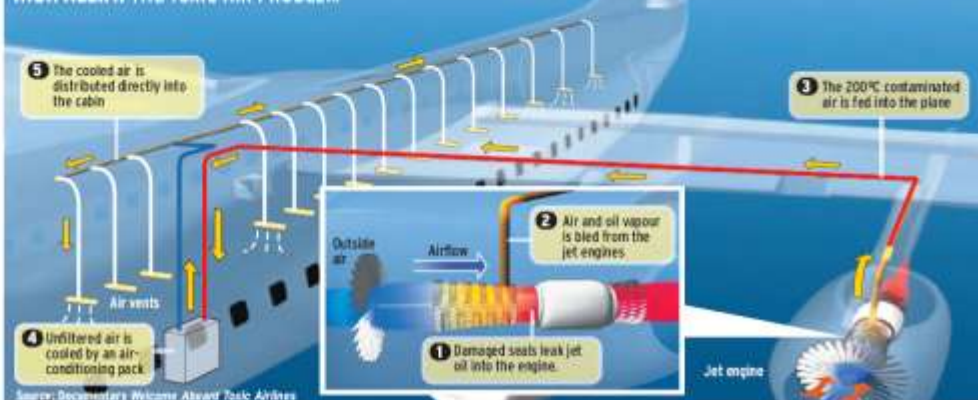
A Qantas flight engineer was off work for a week after inhaling toxic fumes on the flight deck of a Boeing 747 flying from Los Angeles to Auckland in July. WorkCover in NSW issued an improvement order telling the airline to address the problem.

But *The Sun-Herald* can reveal it was not a one-off incident, and that flight crews fear there would be "a disaster" if both pilots were overcome by fumes during a flight.

Australian & International Pilots Association general manager Peter Somerville said: "People don't need to stop flying but there is a problem and it needs to be fixed."

The problem seems from a con-

HIGH ALERT: THE TOXIC AIR PROBLEM



Source: Documentary Welcome Aboard Toxic Airlines

cerns including Australia and in 85

"If we get a major incident where

"Instances such as these are

flying 10 years ago after regular

Australsk dokumentar om turbinolier

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Toxic planes: what the airlines don't tell you
May 27, 2007
 Reporter : [Ross Coulthart](#)

 [Watch video](#)

Few of us give much thought to the air we breathe when we fly on a passenger jet aircraft. But when you think about it, there's something quite miraculous about sitting in comfort in a pressurised aluminium tube at 8000 metres, when outside it's about minus 55°C and the atmospheric pressure is about one-fifth that at ground level.

For about 50 years one of the technologies that has made international jet travel possible is the bleed air pressurisation — which draws hot air out of the engine, cools it down, and then ducts it into the plane cabin and cockpit.

Before it was introduced, planes flying at high altitude, such as the bomber pilots flying over Europe during World War II, had to wear oxygen masks and endure often freezing temperatures inside their cockpit. The B29 Superfortress bomber ushered in bleed air pressurisation, using the compressors in the engines to duct warm air into the cockpit. The Lockheed Constellation aircraft followed post-war and the rest is history.

But eight years ago, during a Senate inquiry in the Australian Parliament, the then head of Australia's air safety watchdog, the Civil Aviation Safety Authority (CASA), conceded what many flight crew have known for decades: that on occasion these bleed air systems can be contaminated with oil that leaks into the cabin air from the engines.

And, as also came out of that inquiry, the jet oil most commonly used in commercial aviation contains a number of nasties — including an organophosphate called tricresyl phosphate (TCP), which is a known neurotoxin. TCP is by no means the only compound that can potentially cause fumes in passenger jet air, but it is the most concerning because of the symptoms the scientists say it can cause: headaches, nausea, dizziness, loss of concentration, blurred vision, temporary paralysis and long-term neurological damage, chronic fatigue and chemical sensitivity.

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http://sunday.ninemsn.com.au/sunday/cover_stories/article_2209.asp

Delta på med amerikanske yrkeshygienikerkonferansen!



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THE PREMIER CONFERENCE & EXPOSITION FOR OHS PROFESSIONALS

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VISION. VALUE. IMPACT.
Minneapolis Convention Center | May 3-June 5, 2008

Vision. Value. Impact.

Three small words mark the theme for the 2008 AIHce. Three small words that have the weight of significant meaning for OHS professionals today and in the future.

Vision. We value and aspire to be visionaries. Visionaries help us see things in a new light or a new angle, taking what we already think we know to be true but then revealing a new layer. Visionaries move the profession forward by having the foresight to anticipate the issues of tomorrow.

Value. OHS professionals provide value to employers, the public, and many other groups. The task of proving that value will be a main focus of keeping the profession vital and growing. AIHce 2008 will be the forum for the diverse disciplines within the profession to come together to discuss their value and learn from each other's experience.

Impact. The ultimate and desired endpoint of vision and value is to have a positive impact. What impact will you have on the work force, your employer, your profession, your society, your life? Will you step up and be a visionary to help others learn about current issues and the impact they will have on the future?

AIHce 2008. Inspire vision. Provide value. Create a positive impact!

Mark your calendars!
AIHce 2008
Vision. Value. Impact.



<http://www.aiha.org/Content/CE/aihce/aihce.htm>

Fravær av bevis,
er ikke bevis på fravær

