NTSTaining

What can we learn from other industries?

Westwood-Thomas Associates.

Dr Matthew J W Thomas

Director / Westwood-Thomas Associates

ph: 0438 808 808

e-mail: matthew.thomas@westwood-thomas.com.au

- Quick review of our current practice
- Walk-through medical simulation
- Identifying areas we could learn from...

Our context / NTS skill development...



What is driving skill-based NTS training development?

Training need...

- Changing industry needs (PM EBT)
- Organisational needs (CV QF)
- Individual needs (RL USAF)

Get real...

- Maximising crew productivity
- Minimising training expenditure
- Regulatory compliance

So how do we innovate within these realistic constraints?

Do better things with existing resources...

System Safety / aviation and medicine...



Aviation accident

I in 10⁻⁶

Medical Adverse Event I in 10



Michael Barnes - QLD Coroner



OFFICE OF THE STATE CORONER

FINDING OF INQUEST

CITATION: Inquest into the Aircraft Crash at

Lockhart River

TITLE OF COURT: Coroner's Court

JURISDICTION: Brisbane

FILE NO(s): Various

DELIVERED ON: 17 August 2007

DELIVERED AT: Brisbane

HEARING DATE(s): 5 April 2007, 08 May 2007, 4-7 June 2007,

18 June - 05 July 2007

FINDINGS OF: Mr Michael Barnes, State Coroner

CATCHWORDS: CORONERS: Inquest, aircraft accident, pilot

training, Civil Aviation Safety Authorities oversight of aviation, crew resource

management training, interaction between Civil

Aviation Safety Authority & Australian

Transport Safety Bureau

REPRESENTATION:

Counsel Assisting: Mr lan Harvey

Family of Sally Urquhart: Mr Terry Martin SC (instructed by Gilshenan & Luton Lawyers)

rdon

Families of Helena Woosup, Gordon Kris, Frank Billy, Fred Bowie & Mardie

Bowie: Mr Gerry Mullins (instructed by Cleary &

Lee Solicitors)

Civil Aviation Safety Authority: Mr Peter Dunning SC with Mr Andrew Luchich (instructed by Blake Dawson

Waldron Lawyers)

Air Services Australia: Mr Kevin Holyoak (instructed by Ebsworth & Ebsworth Lawyers)

Australian Transport Safety Bureau: Mr Peter Rose SC (instructed by

Australian Transport Salety Bureau: Mr Peter Rose SC (Instructed by Australian Government Solicitor)

Jepperson Sanderson Inc.: Mr Ron Ashton (instructed by Minter

Ellison Lawyers)



OFFICE OF THE STATE CORONER FINDINGS OF INQUEST

CITATION: Inquest into the death of

Elise Susannah Neville

TITLE OF COURT: Coroner's Court

JURISDICTION: Brisbane

FILE NO: COR/02 2463

DELIVERED ON: 12 September 2008

DELIVERED AT: Brisbane

HEARING DATE(s): 8 April 2008, 25 & 26 June 2008

FINDINGS OF: Coroner Lock

CATCHWORDS: CORONERS: Inquest - Head Injuries,

Bunk Beds, doctors working hours, emergency department care in regional hospital, emergency retrieval, open disclosure of adverse health events.

REPRESENTATION:

Ms J Rosengren, Counsel assisting the Coroner

Mr DK Boddice representing the State of Queensland

Ms B Betts representing the Department of Emergency Services

Mr Shields of Ryan & Bosscher representing Dr Doneman

Dr Neville representing himself and Mrs Neville

Medicine / Lessons from research and practice



Anesthesia crisis resource management training: Teaching anesthesiologists to handle critical incidents.

Howard, S., Gaba, D., Fish, K., Yang, G., & Sarnquist, F.

Aviation Space and Environmental Medicine (1992:) 63(9), 763-770.

474 Citations

Simulation-based training in anesthesia crisis resource management (ACRM): A decade of experience

SIMULATION & GAMING, Vol. 32 No. 1, June 2001 175-© 2001 Sage Publications, Inc. David M. Gaba Steven K. Howard Kevin J. Fish Brian E. Smith Yasser A. Sowb Stanford University









Framework for Observing and Rating Anaesthetists' Non-Technical Skills



This is the electronic access version of the handbook. To order a hardcopy, please send a cheque for £5.00 made payable to the 'University of Aberdeen', and forward it together with your name and address details to: Rhona Flin, Industrial Psychology Research Centre, School of Psychology, University of Aberdeen, Aberdeen, AB24 2UB.

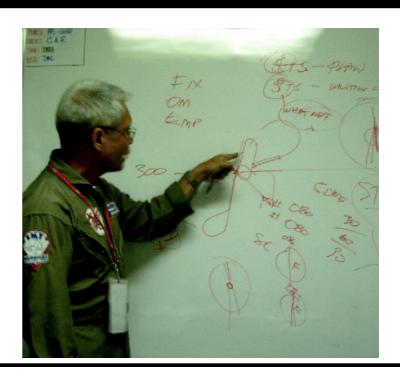
Anaesthetists' Non-Technical Skills (ANTS) System Handbook v1.0



Medicine / So what do (I think) they do better?



Briefing...



Briefing...

- Immersive learning
- Professional peer discussion
- The non-technical gets planned



Short scenarios ...

- Cognitive limits on learning
- Enhance recall in debrief



Debrief...

- Always video-assisted
- Peer review and discussion



Short scenarios...

- Rehearsal
- Opportunity to get it right



Part task...

- Construct scenarios around NTS
- Focus on professional development



Innovate...

- A truck load of research
- Evidence based training

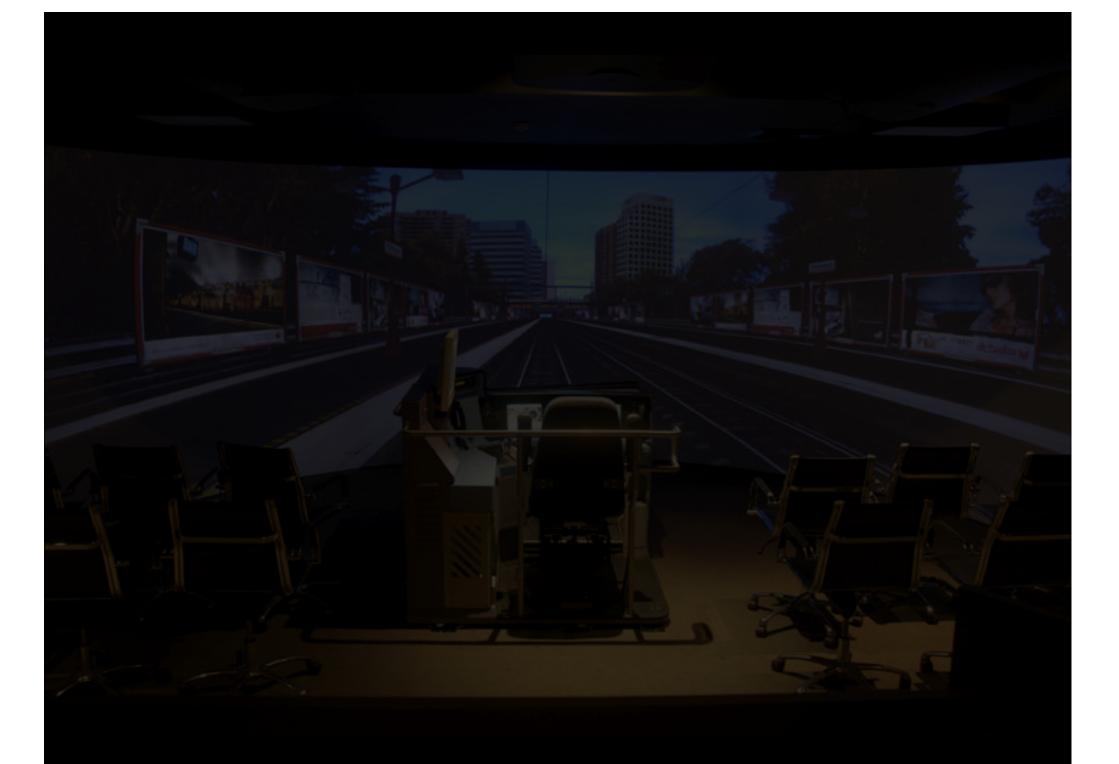


Rail / Lessons from research and practice









We are not utilising our available technology nearly as well as we could...

We risk not keeping up with other high risk industries...





Monday 19 – Thursday 22 November 2012 Novotel Manly Pacific, Sydney Australia







NEXT GENERATION SAFETY

19-22 November 2012

Keynote Speakers

Rhona Flin Sidney Dekker Geoff Sartori Norman MacLeod

Pre-symposium Courses

Fundamentals of Human Factors Investigation LOSA - Implementation for Small to Medium Operators Fatigue Risk Management Systems

Pre-symposium Masterclasses

Advanced Human Factors Management Training and Assessment of Non-Technical Skills Advanced Issues in Safety Management Systems

