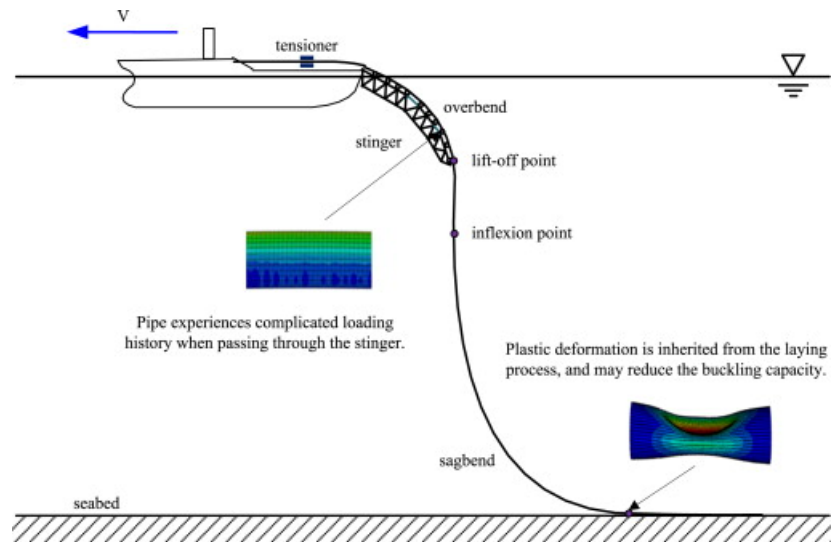




Professor Andrew Clennel Palmer



From: Peng Xie, Yan Zhao, Qianjin Yue and Andrew C. Palmer, "Dynamic loading history and collapse analysis of the pipe during deepwater S-lay operation", *Marine Structures*, Vol. 40, pp 183-192, January 2015

See:

https://www.aus.edu/site/custom_scripts/profile_details.php?profileID=49

Dept. of Civil Engineering
National University of Singapore
Managing director, Bold Island Engineering, Singapore

Biography:

Dr. Andrew Clennel Palmer is Professor of Civil Engineering at the National University of Singapore, where he is engaged in the Centre for Offshore Research and Engineering program of teaching and research. He was selected as the first Jafar Research Professor of Petroleum Engineering in the Department of Engineering of Cambridge University. A Fellow of Churchill College Cambridge, he was engaged in the development of research and teaching in the broad field of petroleum at Cambridge. Dr. Palmer has also held faculty positions at the University of Manchester Institute of Science and Technology and the University of Liverpool. He spent the academic year 2002-2003 on sabbatical leave as a visiting professor in the Division of Engineering and Applied Sciences at Harvard University. His research is on pipeline buckling, trenching and backfill, Arctic offshore construction, drilling and ice mechanics. He has written four books-on structural mechanics, subsea pipelines, dimensional analysis and offshore engineering in the Arctic-and more than 250 scientific papers and technical articles on plasticity, soil mechanics, structures, pipelines, risk and reliability, ice and permafrost. He is the named inventor on four patents. A consulting engineer, Dr. Palmer is principally engaged with pipelines and Arctic construction. Currently, he is Managing Director of Bold Island Engineering (Singapore) Limited. He founded Andrew Palmer and Associates Limited, a company of consulting engineers who specialize in submarine pipelines and Arctic engineering. In addition, he served as Vice President of Engineering of R. J. Brown and Associates, where he took an active part in several research and development programs, including

those related to pipeline ploughs, diverless connections, and Arctic construction. He was Project Manager for the Drake F-76 flowline system, the first Arctic submarine pipeline. Professor Palmer has previously served as President of the Pipeline Industries Guild. A Chartered Engineer, his professional qualifications include Fellow of the Royal Society, Fellow of the Royal Academy of Engineering, Fellow of the Institution of Civil Engineers, Member of the Society of Petroleum Engineers, and Member of the Academy of Experts. Professor Palmer holds a PhD from Brown University, a BA degree from Cambridge University and an honorary doctorate from Clarkson University.

Selected Publications:

- Palmer, A.C. (1968). Optimal structure design by dynamic programming. *Proceedings of the American Society of Civil Engineers* 94: 1887–1906.
- Palmer, A.C. (1969). Limit analysis of cylindrical shells by dynamic programming. *International Journal of Solids and Structures* 5: 289–302.
- Palmer, A.C., and Sheppard, D.J. (1970). Optimizing the shape of pin jointed structures. *Proceedings of the Institution of Civil Engineers* 47: 363–376.
- A.C. Palmer, Lateral buckling of axially constrained pipelines. *Journal of Petroleum Technology*, Forum Nov. 1974, pp.1283-1284.
- Palmer A.C. and J.H. Martin (1975), "Buckle propagation in submarine pipelines", *Nature*, Vol. 254, pp. 46-48.
- Ross CTF, Palmer A (1993) General instability of swedge-stiffened circular cylinders under uniform external pressure. *J Ship Res* 37(1):77–85
- Klever, F.J., Palmer, A.C. and Kyriakides, S. (1994). Limit-state design of high-temperature pipelines. In, *Proc. 13th International Conference on Offshore Mechanics and Arctic Engineering*, Houston, TX, Feb. 1994, Vol. V, 77-92
- Brown R.J., King R., Lagner C. and Palmer A.C. (2001), "Structural Design of Pipelines", *Marine Pipeline Engineering Course*, Houston, TX.
- Palmer A.C. and King R. (2004), "Subsea pipeline engineering", PennWell.
- Palmer, A., 'Limit States and Lateral Buckling, Subsea Australasia Conference 2011
- Andrew Palmer, "Pogorelov's Theory of Creases, and Point Loads on Thin Cylindrical Shells", Chapter in *New Approaches to Structural Mechanics, Shells and Biological Structures*, edited by H.R. Drew and S. Pellegrino, Volume 104 of the series *Solid Mechanics and Its Applications* pp 341-354, DOI: 10.1007/978-94-015-9930-6_27
- Qianjin Yue, Qingzhen Lu, Jun Yan, Jiexin Zheng and Andrew Palmer, "Tension behavior prediction of flexible pipelines in shallow water", *Ocean Engineering*, Vol. 58, pp 201-207, January 2013
- Peng Xie, Qianjin Yue and Andrew C. Palmer, "Cyclic plastic deformation of overbend pipe during deepwater S-lay operation", *Marine Structures*, Vol. 34, pp 74-87, December 2013
- Jiexin Zheng, Andrew Palmer, Paul Brunning and Cheng Ti Gan, "Indentation and external pressure on subsea single wall pipe and pipe-in-pipe", *Ocean Engineering*, Vol. 83, pp 125-132, June 2014
- Peng Xie, Yan Zhao, Qianjin Yue and Andrew C. Palmer, "Dynamic loading history and collapse analysis of the pipe during deepwater S-lay operation", *Marine Structures*, Vol. 40, pp 183-192, January 2015