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APRIL EXAMINATION
NATIONAL CERTIFICATE
ENGINEERING SCIENCE N3
(15070418)

2 April 2014 (Y-Paper)
13:00–16:00

REQUIREMENTS: Properties of water and steam (BOE 173)

Calculators may be used

This question paper consists of 8 pages, 1 information sheet and 1 formula sheet of 2 pages.

Engineering Science N3 Memo 20november

DJ Losen



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Science and Technology Committee,2010-03-25 This report finds that the UK has an excellent research base but is still failing to maximise its potential by translating research into wealth and health The road to economic recovery will depend in part on exploitation of the UK s research base which in turn requires efficient translation to generate returns on investments Some areas of bioengineering such as stem cells have clearly benefited from strong Government leadership and support backed up by generous levels of funding from both the public and private sectors Others such as genetically modified GM crops are less well supported and funded This is curious when GM crops are considered by the Government to be safe and offer potential benefits GM crops are certainly the poor cousin in the bioengineering family and we strongly urge the Government to signal its support for GM crops as well as improving the regulatory situation in Europe Regulation of bioengineering is complex and researchers have found that regulations inhibit research and translation either because of regulatory complexity stem cells or a flawed operation of the regulatory process GM crops There are good indications that the UK is learning from past experiences in bioengineering when handling new emerging technologies such as synthetic biology The Government and Research Councils have recognised the value of synthetic biology early and are providing funding The Committee is also concerned that while research is well funded there is not enough forethought about synthetic biology translation for example developing DNA synthesis capability which would provide the UK with an excellent opportunity to get ahead internationally If this is not addressed synthetic biology runs the risk of becoming yet another story of the UK failing to capitalise on a strong research base and falling behind internationally

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