

Reading Project: Industrial Mathematics

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Today

Abstract

Industrial Maths

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1 Introduction

2 Review of the International State of Industrial and Applied Mathematics, Mechanisms, Philosophy and Effectiveness

Will mainly be focus on Uk but we will look elsewhere in the world for examples and comparisons.

2.1 Definitions

John stockie essay [1].

2.2 Significance

Deloitte Report

Dutch Deloitte Report

2.3 Mechanisms

European Study Groups in Industry

Some study group reports

Innovate UK /Knowledge Transfer Network

Smith institute

Canadian examples - CQAM, Fields

2.4 Successes

BOND Review

2.5 Challenges

BOND Review

2.5.1 Identifying Suitable Problems and Creating links

Especially SMEs

2.5.2 Building working relationships

A long process!!!! Intellectual Property issues

2.5.3 Funding

Talk about Bond Review and about 100 phd student places etc, boosting of EPSRC funding etc

2.5.4 Academic Career Paths

Needs to be seen as a viable career option How to prevent people being snaffled to industry

2.5.5 Brexit

I am reluctant to mention the 'B' word but i think no report that looks at the future of Mathematical Research, Industry or Mathematics in Industry can avoid the topic. The whole scientific community is concerned over the future of funding and ability to collaborate (BREXIT LETTER NOBEL LAUREATES) and industry in the UK is facing an uncertain future (REFERENCE OR MORE HERE).

I don't want to spend much time on this, but I would like to say that whatever happens, examples of success stories in industrial mathemtatics have demonstrated the need for callobaration: with industry, with other fields, with other departments and it will be vital for the continuing success of Industrial Mathematics that the spirit of callaboration is maintained.

3 Real Case Study: Title here

4 Final Thoughts

References

- [1] John M. Stockie. Mathematics For Industry: A Personal Perspective. sep 2015.