

CALL FOR CHAPTER PROPOSALS

Proposal Submission Deadline: May 1, 2015 (extended)

Handbook of Research on Science Education and University Outreach as a Tool for Regional Development

A book edited by

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The Advances in Educational Marketing, Administration, & Leadership (AEMAL) Book Series strives to provide publications that address all these areas and to present current and trending research to assist professionals, administrators, and others involved in the education sector in making decisions.

Introduction

Higher education in the 21st century faces rapid societal changes in a global context. Many leaders of higher education are advocating a new academy - more engaged in the environment than in the past. This book highlights the importance of knowledge spillovers from educational and research activities performed by universities for animating regional economic and social development.

Since science and technology form the core of the present day knowledge era, continuing education in science and technology for regional development is of prime importance as a focus for 21st century universities. Pisano¹ has argued the need for a 'new anatomy' for biotechnology which would require integrating skills and knowledge that reside in a range of disciplines and industry sectors. One can extend the argument for other science and technology fields. It is essential to develop approaches that can facilitate expansion of the boundaries of scholarship and integrate the activities of various stakeholders of higher education.

The concept of outreach and engagement may help in this direction as the focus in this concept is to leverage the strengths of all involved to achieve a common public good (and common goal) while focusing on broader and developmental aspects with less emphasis on academic entrepreneurialism.

¹ Can Science be a Business? Lessons from Biotech". *Harvard Business Review*, October (2006), 114-125.

Objective of the Book

Over 10 years ago, a UNESCO² paper encouraging nations to use Open and Distance Learning to address urgent education and training needs, noted that *"The transition to knowledge societies, largely driven by information communication technologies (ICTs) holds the promise that the right to the free flow of, and equitable access to, knowledge, information, data and best practices across all sectors and disciplines is basically ensured."* Achievement of this promise relies on many factors. National and regional policies and funding to build the systems and structures that facilitate interaction in knowledge societies are vital. The myriad interactions needed among those who develop knowledge and those who need it arguably are even more difficult to attain.

A decade after the UNESCO recommendations, the curricula of universities and tertiary education institutions, with their important role in preparing students to be successful in their lives, too often have little connection to professional preparation needed by the private sector, and particularly as regards science and technology. 21st century universities have an opportunity to use the great educational and intellectual talents of faculty and staff to serve society by partnering with social and economic interests in its state and region in ways that meet, not just traditional university objectives, but community and societal needs.

The scope of this book builds on this concept, suggesting strategies to professionalize various subject fields of science and technology in the context of knowledge society and knowledge economy. The book assumes that these developments in a knowledge society should be treated in a holistic manner and not merely on economic considerations. The scope of the book therefore is broad: to explore the best practices and strategies adopted by tertiary education institutions to improve and increase professional science education that bridges the gap with industry; to develop and identify various approaches that may help in meeting the challenges faced in professionalising science and technology education; and to assess and project the relevance of university outreach for regional development. The book will serve as a research handbook covering all these aspects, suggesting how various curricula and systems adopted by tertiary education institutions leading this field can be integrated to develop a new anatomy of professionalized education for the benefit of all stake holders of our knowledge society.

Target Audience

The book can be used in various contexts by higher education institutions:

- Curriculum developers: for insights into a new way of looking at desired outcomes
- Educationists in general and for science and technology professionals in particular: for understanding the need for a new focus for professional science education and for a new anatomy (structure) for planning continuing education programmes in science and technology
- Private universities which may not have a public service mission: for evolving models that focus on holistic development rather than only on economic development

² Open and Distance learning: Trends, Policy and Strategy Considerations" United Nations Educational, Scientific and Cultural Organization, 2002, p. 83.

- Policy makers in higher education: for guidance for developing strategies for outreach and distance education
- Colleges and other tertiary education institutes: for planning their activities to link with their surroundings and constituents
- Faculty and teachers: for developing consultancy projects for the civic society surrounding them
- Researchers: for further development of the university outreach concept
- Industry leaders: for evolving strategies for collaborative and cooperative involvement with institutions of higher education for their own benefit as well as for social good.
- Training institutes: for planning relevant, needed training programmes
- Corporate human resources directors: for designing their own training programmes
- Other stakeholders (like NGOs, government): for developing strategies for involving universities in developing their field level professionals

Recommended topics include, but are not limited to, the following:

- Knowledge Society and Knowledge Economy
- Knowledge management (KM) and capacity building management (CBM) in higher education
- Societal demands and adopting teaching-learning systems in higher education to reach out to industry and society
- Science, technology and society
- Professionalising science education - need for new approaches
- Building networks and consortia for sustainable interaction between industry, society and academia.
- Continuing education courses in science and technology and outreach for regional transformation
- Academic professionalism - preparing academics for innovation through outreach
- Higher education systems for developing countries - practices and hurdles
- Regional agglomeration and knowledge spill overs
- Humanities, social sciences and continuing science education - need for integration
- Science and technology courses delivered with skill based competency building and through outreach
- Industries' requirements for science and technology skills - need for new approaches in academic courses
- Regional transformation through outreach programmes - relevance to regions lacking in talent, resources and infrastructure.
- Emergence of KM and CBM - managing science and technology courses

- Preparing graduates for work life - moving beyond disciplinary boundaries
- Science and technology courses for knowledge society and knowledge economy
- Regional innovation systems - strategies for regional development
- Preparing science graduates for non-academic professions
- Outreach programmes in science and technology

Submission Procedure

Researchers and practitioners are invited to submit on or before **May 1, 2015**, a chapter proposal of 1,000 to 2,000 words clearly explaining the mission and concerns of the proposed chapter. Authors will be notified by **May 8, 2015** about the status of their proposals and sent chapter guidelines. Full chapters are expected to be submitted by **June 30, 2015**, and all interested authors must consult the journal's guidelines for manuscript submissions prior to submission. All submitted chapters will be reviewed on a double-blind review basis. Contributors may also be requested to serve as reviewers for this project.

Note: There are no submission or acceptance fees for manuscripts submitted to this book publication, Handbook of Research on Science Education and University Outreach as a Tool for Regional Development. All manuscripts are accepted based on a double-blind peer review editorial process.

All proposals should be submitted through the E-Editorial Discovery™ online submission manager.

Full chapters may be submitted to this book here: [Submit a chapter](#)

All proposals should be submitted through the link at the bottom of this page.

Publisher

This book is scheduled to be published by **IGI Global (formerly Idea Group Inc.)**, an **international academic publisher of the “Information Science Reference”** (formerly Idea Group Reference), “Medical Information Science Reference,” “Business Science Reference,” and “Engineering Science Reference” imprints. IGI Global specializes in publishing reference books, scholarly journals, and electronic databases featuring academic research on a variety of innovative topic areas including, but not limited to, education, social science, medicine and healthcare, business and management, information science and technology, engineering, public administration, library and information science, media and communication studies, and environmental science. For additional information regarding the publisher, please visit www.igi-global.com. This publication is anticipated to be released in 2016.

Important Dates

Proposal Submission Deadline: **May 1, 2015**

Acceptance of proposals: **no later than May 8, 2015**

Full chapter Submission: **June 30, 2015**

Review Results Returned: **August 30, 2015**

Final Acceptance Notifications: **October 15, 2015**

Inquiries can be forwarded to

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