

UNIVERSITIES, COMMUNITIES AND REGION

the Case of the
Penang City-Region, Malaysia

MONOGRAPH 16/2011

Editors

Morshidi Sirat

Aniswal Abd. Ghani

Clarene Tan Chern Chieh

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The Case of the Penang City-Region, Malaysia

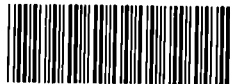
Editors

Morshidi Sirat, Aniswal Abd. Ghani and Clarene Tan Chern Chieh

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Acronyms and Abbreviations

AAK	<i>Anak-anak Kota</i>
AARG	AIDS Action Research Group
ACMFF	Australian Cranio-Maxillo Facial Foundation
AEH	Asia-Europe Meeting Education Hub
AIDAAS	Advance Information Delivery and Access Solution
AIM	<i>Amanah Ikhtiar Malaysia</i> (Endeavour Trust of Malaysia)
ALO	Alumni Liaison Office
AMD	Advanced Micro Devices
AMDI	Advance Medical and Dental Institute
APEX	Accelerated Programme for Excellence
ARTS-ED	Arts Education Programmes for Young People
ASAE	Asian Society of Agricultural Economists
ASEAN	Association of Southeast Asian Nations
ASEM	Asia-Europe Meeting
ASTS	Academic Staff Training Scheme
ASTW 2008	Asian Science and Technology Week
APO	Asian Productivity Organisation
ATAP	Malaysian Museums Association and Association of Tourist Attraction in Penang
BCIC	Bumiputera Commercial and Industrial Community
BERU	Basic Education Research Unit
BiotechCorp	Malaysian Biotechnology Corporation
BJIM	Division of Industry and Community Network, Universiti Sains Malaysia
BOLD	Bureau on Learning Difficulties
CAGIN	Canada-ASEAN Governance Innovations Network Program
CAP	Consumer Action of Penang
CASP	Community AIDC Services of Penang
CAT	Competency, Accountability, Transparency
CCB@USM	Centre of Chemical Biology, Universiti Sains Malaysia
CEDEC	Collaborative Microelectronic Design Excellence Centre

CEMAC	Centre for Marine and Coastal Studies
CDR	Centre of Drugs Research
CSDD	Corporate and Sustainable Development Division
CenPRIS	Centre for Policy Research and International studies
CETREE	Centre for Education, Training and Research in Renewable Energy and Energy Efficiency
CIAST	Centre for Instructor and Advanced Skill Training (Pusat Latihan Pengajar dan Kemahiran Lanjutan)
CPI	Competition Policy International
CIP	Cradle Investment Program
CPI	Consumer Price Index
CRDF	Commercialisation of Research and Development Fund
CRRC	Collaborative Research and Research Centre
DAGS	Demonstrator Application Grant Scheme
DANCED	Danish Cooperation for Environment and Development
DID	Department of Irrigation and Drainage
E&E	Electrical & Electronics
EMEA	European Union, Middle East and Africa
ESCWA	United Nations Economic and Social Commission for Western Asia
ESD	Education for Sustainable Development
ESP	English for Specific Purposes
EPZ	Export Processing Zone
FDA	The United States Foods and Drug Administration
FIZ	Free Industrial Zones
FTZ	Free Trade Zones
FRI	Fisheries Research Institute
GDP	Gross Domestic Product
GIS	Geographic Information System
GLP	Good Laboratory Practices
GOM	Government of Malaysia
GSM	Global System for Mobile Communications

HEI	Higher Education Institution
IAP	Industry Advisory Panel
ICAEW	Institute of Chartered Accountants in England and Wales
ICOM	International Council of Museum
ICRA	International Centre of Research in Accounting
ICT	Information and Communication Technology
IEAUK	International Entrepreneurs Association of the United Kingdom
IGS	Industrial Research and Development Grant Scheme
INFORMM	Institute for Research in Molecular Medicine
INSPIRE	Industry Networking System Promoting Industry Relevance Employability
IOG	Institute of Governance
IMT-GT	The Indonesia-Malaysia-Thailand Growth Triangle
IP	Intellectual Property
IPHARM	Malaysian Institute of Pharmaceuticals and Nutraceuticals
IPPTN	National Higher Education Research Institute
IPRS	International Postgraduate Research Scholarship
IPGKTAR	Institut Pendidikan Guru Kampus Tun Abdul Razak
IRPA	Intensification of Research in Priority Areas
ISDEV	Centre for Islamic Development
ISI	Import Substitution Industrialisation
IT	Information and Technology
IXC	Innovation Exchange Malaysia Berhad
JMTI	Japan Malaysia Technical Institute
KANITA	Women's Development Research Centre
KAIST	Advanced Institute of Science and Technology
KDU	Kolej Damansara Utama
K-ICT	Knowledge-Information Communication Technology
KLCC	Kuala Lumpur Convention Centre
KLEC	Kuala Lumpur Education City
LKS	Entrepreneurship Undergraduate Training
LMS	Learning Management System

MAHA 2008	Malaysian Agriculture, Horticulture and Agro Tourism Show 2008
MAMPU	Malaysian Administrative Modernisation and Management Planning Unit
MATRADE	Malaysia External Trade Development Corporation
MARA	<i>Majlis Amanah Rakyat</i>
MARDI	Malaysian Agricultural Research and Development Institute
MAREF	Malaysia Accountancy Research and Education Foundation
MBA	Master in Business Administration
MCI	Malaysia Citizenship Initiative
MDeC	Multimedia Development Corporation
MECD	Ministry of Entrepreneur and Cooperative Development
MESITA	Malaysian Electricity Supply Industry Trust Account
MEWC	Ministry of Energy Water and Communication
MIA	Malaysian Institute of Accountants
MGS	Multimedia Super Corridor Research and Development Grant Scheme
MIFB 2008	Malaysian International Food & Beverage Trade Fair 2008
MTE	Malaysian Technology Expo
MIDA	Malaysian Industrial Development Authority
MINDS	Malaysian Invention and Design Society
MIT	Massachusetts Institute of Technology
MITI	Ministry of International Trade and Industry
MSMA	Manual <i>Saliran Mesra Alam</i>
MMU	Multimedia University
MNCs	Multi-national Corporations
MNS	Malaysia Nature Society
MoHE	Ministry of Higher Education
MoU	Memorandum of Understandings
MOSTI	Ministry of Science, Technology and Innovation Malaysia
MPPP	<i>Majlis Perbandaran Pulau Pinang</i> (Municipal Council of Penang Island)

MPSP	<i>Majlis Perbandaran Seberang Perai</i> (Municipal Council of Seberang Perai)
MQA	Malaysian Qualifications Agency
MQF	Malaysian Qualification Framework
MQR	Malaysian Qualifications Register
MTDC	Malaysian Technology Development Corporation
MSC	Multimedia Super Corridor
NATPRO	Natural Product Expo 2008
NAv6	National Advanced Internet Protocol version 6 Centre
NBCT	North Butterworth Container Terminal
NCER	Northern Corridor Economic Region
NCIA	Northern Corridor Implementation Authority
NCHEMS	National Center for Higher Education Management Systems
NGOs	Non-Governmental Organisation
NSEP	Needle and Syringes Exchanges Programme
NTFHR	National Task Force on Hard Reduction Malaysia
NUI	National University of Ireland
OBHE	Observatory on Borderless Higher Education
ODL	Open/online Distance Learning
OECD	Organization for Economic Co-operation and Development
OKU	<i>Orang Kurang Upaya</i>
OVOP	One Village One Product
PACE	Promoting Activities for Continuing Education
PALAPES	Research Officer Training Unit (Pasukan Latihan Pegawai Simpanan)
PCC	Penang Cyber City
PCC2	Penang Cyber city 2
PCC3	Penang Cyber City 3
PDC	Penang Development Corporation
PEACE	Research and Education for Peace Unit
PECC	Penang Educational Consultative Council

PETAS	<i>Persatuan Pelajar Tanpa Asrama</i> (Association of Students without Hostel)
PERDA	Penang Development Regional Authority
PEWOG	Penang Environment Working Group
PMC	Penang Medical College
PPKT	<i>Pusat Pengetahuan, Komunikasi dan Teknologi</i>
PRN	National Poison centre
PRO	Public Relation Office
PSDC	Penang Skills Development Center
PTPTN	National Higher Education Fund Corporation (Perbadanan Tabung Pendidikan Tinggi Nasional)
QAD	Quality Assurance Division
RCMO	Research Creativity and Management Office
RESCAM	Regional Centre for Education in Science and Mathematics
REDAC	River Engineering and Urban Drainage Research Centre
RBM	River Basin Management
RCE	Regional Centre of Expertise
RCSI	Royal College of Surgeons in Ireland
RDF	Commercialisation of R&D Fund
R&D	Research and Development
RMIT	Royal Melbourne Institute of Technology
SAGA	Scientific Advancement Grant Allocation
SAM	<i>Sahabat Alam Malaysia</i>
SAMENTA	Small and Medium Enterprises Association
SCoPe	Software Consortium of Penang
SEAMEO	Southeast Asian Ministers of Education Organisation
SEAP	SME Export Advisory Panel
SEDC	State Economic Development Corporation
SERI	Socio-Economic and Environmental Research Institute
SETARA	Malaysian Benchmarking System for Institutions of Higher Learning Program
SIRIM	Standards and Industrial Research Institute of Malaysia

SMEs	Small and Medium-sized Enterprises
SMIIs	Small and Medium Industries
SMIDEC	Small and Medium Industries Development Corporation
SOPs	Standard Operating Procedures
SPI	Sustainable Penang Initiatives
STI	Science, Technology and Innovation
SUKSIS	Police Undergraduate Voluntary Corp (Pasukan Sukarelawan Polis Siswa/Siswi)
TAF	Technology Acquisition Fund
TAP	Technopreneur Academy Programme
TARC	Tunku Abdul Rahman College
TFMG	Tunku Fauziah Museum and Gallery
TLO	Technology Licensing Office
OUM	Open University Malaysia
UCD	University College Dublin
UILC	Centre for UiTM-Industry Linkages and Commercialisations
UiTM	Universiti Teknologi MARA
UNESCO	United Nations Educational Scientific and Cultural Organization
UK QAA	United Kingdom Quality Assurance Agency
UNU-IAS	United Nations University-Institute of Advanced Studies
UNU-RCE	United Nations University's Regional Centre for Excellence
UPEN	<i>Unit Perancang Ekonomi Negeri</i> (Penang State Economic Planning Unit)
USM	Universiti Sains Malaysia
WWP	Water Watch Penang
WOU	Wawasan Open University
WHO	World Health Organisation