



SEAMEO BASIC EDUCATION STANDARDS (SEA-BES): DEVELOPMENT OF THE COMMON CORE REGIONAL LEARNING STANDARDS (CCRLS) IN SCIENCE

Project Management Team and Members

SEAMEO RECSAM

Dr. Hj Mohd Johan bin Zakaria, D.J.N. (Centre Director)
Dr. Nur Jahan Ahmad (Deputy Director, R & D – from March 16, 2016 to September 30, 2017)
Dr. Suhaidah Tahir (Deputy Director, R & D – until February 29, 2016)
Ms. Khor Sim Suan (Deputy Director, TPD from October 1, 2016 to present)
Dr. Koay Suan See (Deputy Director, TPD until April 1, 2016)
Mr. Shamsul Azha B.MD Yusuf (Deputy Director, Administration)
Ms. Rashidah Hj Othman (Accountant)
Mr. Dominador Dizon Mangao (Specialist, R & D, Project Leader and Coordinator for Science Standards)
Dr. Hj Mohd Sazali bin Khalid (Specialist, R & D, Coordinator for Mathematics Standards 2015-2016)
Mr. Pedro Montecillo, Jr. (Specialist, TPD, Coordinator for Mathematics Standards from 2016 to present)
Ms. Teh Kim Hong (Senior Specialist, TPD, Coordinator for Mathematics Standards from 2016 to present)

SEAMEO Secretariat

Dr. Gatot Hari Priowirjanto (Director, April 2015 to present)
Dr. Ethel Agnes P. Valenzuela (Deputy Director, Programme and Development)
Mr. Prasert Tepanart (Deputy Director, Administration and Communication)

Dr. Witaya Jeradechakul (Director, April 1, 2011 – March 30, 2015)
Dr. Handoko (Deputy Director, Programme and Development)
Dr. Tinsiri Siribodhi (Deputy Director, Administration and Communication)

Consultants

Science Education: Dr. Mark Windale, Principal Lecturer in Science Education and Director of International Programme, Centre for Science Education, Sheffield Hallam University, United Kingdom

Mathematics Education: Prof. Masami Isoda, Director, Centre on International Cooperation in Educational Development (CRICED), University of Tsukuba, Tokyo, Japan

Curriculum Development: Prof Kerry J Kennedy, Research Chair Professor of Curriculum Studies and Director, Centre for Governance and Citizenship, Hong Kong Institute of Education, Hong Kong

SEAMEO RECSAM SCIENCE SPECIALISTS

No	Name of Science Specialist	Division
1.	Dr. Nur Jahan Ahmad	Research & Development
2.	Mr. Dominador D. Mangao	Research & Development
3.	Dr. Ng Khar Thoe	Research & Development
4.	Mr. Julito C. Aligaen	Research & Development (until May 31, 2017)
5.	Dr. Hazura Ab Bakar	Research & Development (until 2016)
6.	Dr. Miranda Yeoh Poh Khoon	Research & Development (from 2017)
7.	Dr. Koay Suan See	Training Programme (until April 1, 2016)
8.	Ms Khor Sim Suan	Training Programme
9.	Dr. Fazzlijan binti Mohamad Adnan Khan	Training Programme
10.	Mr. Lee Shok Mee	Training Programme
11.	Mr. Hideo Nakano	Training Programme (until December 30, 2016)
12.	Mr. Yuji Otsuka	Training Programme

MASTER/EXPERIENCED SCIENCE TEACHERS FROM PENANG STATE

No	Name of Teacher	Name of School
1.	Dr. Kong Sow Lai	SKM Sungai Ara, Penang
2.	Ms. Linda Toh	SMK Penang Free, Penang
3.	Ms. Sofiazan Mohd Yusof	SMK Agama Al Irshad Pokok Sena, Penang

4.	Ms. Nurun Najah bt Elias	SMK Al-Mashoor (P), Penang
5.	Mr. Thiagarajan	ST. George's Girl's School, Penang
6.	Ms Savanee Sararaks	SMK Abdullah Munshi, Penang
7.	Ms. Lim Yoon Khim	SJK (C) Kwang Hwa , Penang
8.	Mr. Ooi Eng San	SK St. Xavier, Penang
9.	Ms Goon Lai Imm	SK Korok Balik Pulau, Penang
10.	Ms Susliza binti Ismail	SK Minden Height, Penang
11.	Mr Wan Mohd Azam bin Wan Mohamad	SK Minden Height, Penang
12.	Mr. Han Kaw Sey	SMK Teluk Bahang, Penang

SCIENCE LECTURERS

No	Name of Lecturer	Name of Institution
1.	Dr. Mageswary Karpudewan	School of Educational Studies, Universiti Sains Malaysia, Penang
2.	Dr. Devadason Robert Peter	Institut Pendidikan Guru Kampus Ipoh, Perak
3.	Dr. Parvinder Singh A/L Amar Singh	Institut Pendidikan Guru Kampus Pulau Pinang, Penang
4.	Dr. Yeoh Poh Choo	Institute Pendidikan Guru Kampus Pulau Pinang, Penang
5.	Ms. Foo Lay Kuan	Institut Pendidikan Guru Kampus Pulau Pinang, Penang

SUPPORT STAFF

No	Name of Staff	Name of Division/Unit
1.	Ms Faridah Abdul Hamid	Personal Assistant to the Director , Office of the Centre Director
2.	Ms Tiana Mohamad	Programme Officer, Research & Development
3.	Ms Jenny Ong Lay Sim	Admin Assistant, Research & Development
4.	Ms Ong Mei Yean	Research Officer, Research & Development

**Delegates to the 3rd Regional Consultative Meeting and Workshop on
SEAMEO Basic Education Standards: Finalisation of the CCRLS in Science and
Mathematics**

SEAMEO RECSAM Penang, Malaysia

28-30 March 2017

No	Name of Delegate	Position, Office and Country
1.	Dr. Mark Windale	Principal Lecturer in Science Education and Director of International Programme, Centre for Science Education, Sheffield Hallam University
2.	Hj. Shamsulbahri bin Hj. Muhammad	Senior Education Officer, Science Unit Curriculum Development Department, Ministry of Education Brunei Darussalam Old Airport Road, Berakas, Bandar Seri Begawan, Brunei Darussalam
3.	Mrs. Lili Mariam binti Ismail	Education Officer, International Affairs Unit Block A, 2 nd Floor, Ministry of Education Brunei Darussalam, Old Airport Road, Berakas, Bandar Seri Begawan, Brunei Darussalam
4.	Mr. Socheat Suon	Head of Science Curriculum Development Office, Curriculum Development Department Ministry of Education, Youth and Sport, Kingdom of Cambodia, 185 Norodom Blvd Sangkat Bocung Keng Kong I, Phnom Penh
5.	Mariati Purba, M.Pd	Science Curriculum Specialist, Researcher for Curriculum and Books Center, Pusat Kurikulum dan Perbukuan, Ministry of Education and Culture Indonesia, Jalan Gunung Sahari Raya No. 4, Jakarta Pusat, 10270
6.	Mr. Azmi bin Harun	Assistant Director, Science Unit Curriculum Development Division, Ministry of Education Malaysia, Level 4-8, Block E9, The Federal Government Administrative Centre, 62604 PUTRAJAYA
7.	Dr. Htay Htay Win	Assistant Director (Science Curriculum), Ministry of Education Myanmar, No.123, Naut Mouk, Bahan Township, Yangon, Myanmar

8. Mr. Joseph V. Gutierrez Senior Education Program Specialist, Curriculum Standards Division, Bureau of Curriculum Development, Department of Education Philippines, 3rd Floor, Bonifacio Bldg., DepEd Complex , Meralco Avenue, Pasig City, Philippines
9. Dr. Wong Jon Sien Darren Assistant Director and Lead Specialist/ Physics, Curriculum Planning and Development Division, Ministry of Education Singapore, 1 North Buona Vista Drive, Singapore 138675
10. Mr. Antoninho da Silva Pinto Chief of Department of Evaluation of Examinations, Ministry of Education Democratic Republic of Timor Leste Rua Vila Verde, Dili, Timor Leste
11. Dr. Indarjani Deputy Director for Programme, SEAMEO QITEP in Science, Jalan Diponegoro No.12 Bandung 40115, West Java, Indonesia
12. Ms. Thanapun Charlee Acting Head of Compulsory Science Unit The Institute for the Promotion for Teaching Science and Technology (IPST), 24 Sukhumvit Road, Phra Khanong, Klongtoey, Bangkok 10110
13. Prof. Yoshisuke Kumano Professor of Science Education, Shizuoka University, 836 Ohya, Suruga-Ku Shizuoka-Shi Japan 422-8529
14. Dr. Kenji Matsubara Ph.D., Dip Tchg Senior Researcher, Department for Curriculum Research, Curriculum Research Center, National Institute for Educational Policy Research (NIER) Kasumigaseki 3-2-2 Chiyoda-ku, Tokyo 100-8951
15. Prof. Takeshi Fujita Professor, Faculty of Education, Chiba University, 1-33, Yayoicho, Inageku Chiba-shi, Chiba-283-8522
16. Asst. Prof. Ryugo Oshima Asst. Professor, Faculty of Education, Chiba University, 1-33, Yayoi-cho, Inage ku Chiba-shi, Chiba-283-8522
17. Prof. Dr. Ong Eng Tek Professor, Faculty of Education & Human Development, Sultan Idris Education University , Proton City, 35900 Tanjung Malim, Perak, Malaysia
18. Dr. Devadason Robert Peter Institut Pendidikan Guru (IPG) Kampus Ipoh Jalan PPH, 31150 Hulu Kinta, Perak, Malaysia

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| 19. | Assoc. Prof. Dr. Mageswary
D/O Karpudewan | Assoc. Professor, School of Educational
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| 20. | Dr. Parvinder Singh A/L
Amar Singh | Lecturer, Institut Pendidikan Guru (IPG)
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| 21. | Dr. Nur Jahan binti Ahmad | Deputy Director, R & D Division, SEAMEO
RECSAM |
| 22. | Ms Khor Sim Suan | Deputy Director, Training Programme
Division, SEAMEO RECSAM |
| 23. | Mr. Dominador Dizon
Mangao | Specialist, R & D Division, SEAMEO
RECSAM |
| 24. | Dr. Ng Khar Thoe | Specialist, R & D Division
SEAMEO RECSAM |
| 25. | Mr. Julito Aligaen | Specialist, R & D Division
SEAMEO RECSAM |
| 26. | Dr. Miranda Yeoh Poh
Khoon | Specialist, R & D Division
SEAMEO RECSAM |
| 27. | Mr. Lee Shok Mee | Specialist, Training Programme Division,
SEAMEO RECSAM |
| 28. | Dr. Fazzlijan Mohamed
Adnan | Specialist, Training Programme Division
SEAMEO RECSAM |
| 29. | Mr. Yuji Otsuka | JICA Senior Volunteer, Training Programme
Division, SEAMEO RECSAM |
| 30. | Mr. Shamsul Azha bin Md
Yusuf | Deputy Director, Administration Division,
SEAMEO RECSAM |
| 31. | Dr. Hj Mohd Johan bin
Zakaria, D.J.N. | Centre Director, SEAMEO RECSAM |
| 32. | Mr. Ismariwan Shamsudin | Programme Support Officer
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Bangkok, Thailand |

**SEA-BES CCRLS IN SCIENCE RESEARCH MEETING WITH SCIENCE
PROFESSORS AND RESEARCHERS IN JAPAN**

13-20 June 2016

No	Name of Professor	University/Institution
1.	Assoc. Prof. Toshinobu Hatanaka	Toho University
2.	Prof. Izumi Imai	Toho University
3.	Prof. Yoshisuke Kumano	Shizuoka University
4.	Assoc. Prof. Yoshiyuki Gunji	Shizuoka University
5.	Prof. Takeshi Fujita	Chiba University
6.	Asst. Prof. Ryugo Oshima	Chiba University
7.	Dr. Kenji Matsubara	National Institute for Educational Policy Research (NIER), MEXT
8.	Tomoaki Matsuo (Research Meeting only)	National Institute for Educational Policy Research (NIER), MEXT
9.	Saori Oda (Research Meeting only)	National Institute for Educational Policy Research (NIER), MEXT
10.	Yorikazu Nouchi (Information Exchange Meeting only)	National Institute for Educational Policy Research (NIER), MEXT
11.	Hajime Shirouzu (Research Meeting only)	Center for Research and development of Higher Education, University of Tokyo

**Delegates to the Second Regional Consultative Meeting and Workshop on
SEAMEO Basic Education Standards: Development of the CCRLS in Science
and Mathematics**

SEAMEO RECSAM Penang, Malaysia

20-22 October 2015

No	Name of Delegate	Position, Office and Country
1.	Dr. Gatot Hari Priowirjanto	Director, SEAMEO Secretariat, Bangkok, Thailand
2.	Hj Shamsulbahri bin Hj Muhammad	Head of Science Unit, Department of Curriculum Development, Ministry of Education, Brunei Darussalam
3.	Ms Rasidah Junaidi	Head of Mathematics Unit, Department of Curriculum Development, Ministry of Education, Brunei Darussalam
4.	Mr. Soun Socheat	Chief of Science Office, Curriculum Development Department, Ministry of Education, Youth and Sports, Cambodia
5.	Mr Nguon Prum	Deputy Head of Mathematics, Curriculum Development Department, Ministry of Education, Youth and Sports, Cambodia
6.	Prof. Siti Zubaidah	Lecturer, State University of Malang, Malang, Indonesia
7.	Mr. Houmphanh Khanthavy	Head of Physics, Research Institute for Education and Science, Ministry of Education and Sports, Lao PDR
8.	Mr. Songka Keochansy	Technical Staff, Department of Secondary School, Ministry of Education and Sports, Lao PDR
9.	Mr. Azmi Harun	Science Unit, Curriculum Development Division, Ministry of Education, Malaysia
10.	Mr. Radin Muhd Imaduddin	Mathematics Unit, Curriculum Development Division, Ministry of Education, Malaysia
11.	Dr. Htay Htay Win	Assistant Director (Science Curriculum), Ministry of Education, Myanmar
12.	Ms Daw Aye Nyunt	Deputy Staff Officer (Mathematics Curriculum), Ministry of Education, Myanmar
13.	Mr. Joseph R. Jacob	Senior Education Program Specialist, Curriculum Development Division, Department of Education, Philippines
14.	Ms Elizabeth G. Catao	Senior Education Program Specialist,

15. Mr. Sarunyou Srisomporn Department of Education, Philippines
Specialist Teacher, Prachinratsadornamroong School, Amphoe Mueang Prachinburi Prachin Buri province, Office of Basic Education Commission, Thailand
16. Ms Pacharapron Thongsawat Teacher, Beaconhouse Yamsaard School, Lam Lukka, Pathum Thani Province, Office of the Private Education Commission, Thailand
17. Dr. Ho Vinh Thang Senior Academic Staff, Secondary Education Department, Ministry of Education and Training, Vietnam
18. Dr. Ta Ngoc Tri Senior Academic Staff, Primary Education Department, Ministry of Education and Training, Hanoi, Vietnam
19. Prof. Dr. Triyanta Centre Director, QITEP in Science, Bandung, Indonesia
20. Mr. Fadjar Shadiq Deputy Director for Administration, SEAMEO QITEP in Mathematics, Yogyakarta, Indonesia
21. Ms Anti Rismayanti Research Officer, SEAMOLEC, Jakarta, Indonesia
22. Dr. Wanida Tanaprayothesak Assistant to the IPST President, IPST, Bangkok, Thailand
23. Dr. Soledad Ulep Director, UPNISMED, Quezon City, Philippines
24. Ms Peggy Lim British Council Penang, Malaysia
25. Ms Liew Siew Hui British Council Malaysia, Kuala Lumpur

Delegates to the First Regional Consultative Meeting on SEAMEO Basic Education Standards and SEA-Primary Learning Metrics

SEAMEO RECSAM Penang, Malaysia

4-5 November 2014

No	Name of Delegate	Position, Office/ Institution and Country
1.	Dr. Witaya Jeradechakul	Director, SEAMEO Secretariat, Bangkok, Thailand
2.	Dr. Handoko	Deputy Director, SEAMEO Secretariat, Bangkok, Thailand
3.	Dr. Jim Ackers	Regional Education Adviser, UNICEF EAPRO, Bangkok, Thailand
4.	Ms Camille Woeldike	Project Coordinator, , UNICEF EAPRO, Bangkok, Thailand
5.	Dr. Jimin Cho	Head, Office of Global Cooperation, KICE, Seoul, Korea
6.	Dr. Miyoung Hong	Senior Research Fellow, KICE, Seoul, Korea
7.	Dr. Mioko Saito	Programme Specialist, UNESCO-IIEP, Paris, France
8.	Dr. Gwang-Chol Chang	Chief, Education Policy and Reform Unit, UNESCO, Bangkok
9.	Dr. Emma Claire Pearson	Senior Lecturer, Sultan Hassanal Bolkiah Institute of Education. UBD, Brunei Darussalam
10.	Ms Jeaniene Spink	Principal Research Fellow, ACER, Melbourne Office
11.	Dr. John Cresswell	Principal Research Fellow, ACER Perth Office
12.	Dr. Annie Brown	Principal Research Fellow, ACER Melbourne Office
13.	Dr. Ghazala Rafique	Interim Director, Human Development Programme, Aga Khan University, Pakistan
14.	Dr. Asmah Ahmad	Programme Officer (Evaluation), SEAMEO Secretariat, Bangkok, Thailand
15.	Ms Lauranne Beernaert	SEA-PLM Project Assistant, SEAMEO Secretariat, Bangkok, Thailand
16.	Ms Elaissa Marina Mendoza	Senior Associate, Research Studies Unit, SEAMEO INNOTECH, Philippines
17.	Dr. Sandra Tempongko	Deputy Coordinator, SEAMEO TROPED Network, Bangkok, Thailand
18.	Mrs Nursyuhaidah binti Hj Ahmad	Documentation Officer, SEAMEO VOCTECH, Brunei Darussalam
19.	Mrs Noorhayati Cynthia binti Abdullah	Specialist, SEAMEO VOCTECH, Brunei Darussalam

20. Ms Mazmi binti Maarof Training Coordinator, SEAMEO SEN, Melaka , Malaysia
21. Ms Rozilawati Abd Kadir Researcher, SEAMEO SEN, Melaka , Malaysia
22. Asst Prof Dr Jurarat Sukhothai Thammathirat Open University (for Thammaprateep SEAMEO SPAFA)
23. Ms Lili Indarti Secretary, SEAMEO QITEP in Science, Bandung, Indonesia
24. Dr. Indarjani Deputy Director for Programme , SEAMEO QITEP in Science, Bandung, Indonesia
25. Mr. Reza Setiawan Head of Programme, SEAMEO QITEP in Science, Bandung, Indonesia
26. Mr Fadjar Shadiq Deputy Director for Administration, SEAMEO QITEP in Mathematics, Yogyakarta, Indonesia
27. Dr. Felicia Nuradi Utorodewo Centre Director, SEAMEO QITEP in Language, Jakarta, Indonesia
28. Mr Hj Shamsulbahri Hj Muhammad Head of Science Unit, Ministry of Education, Brunei Darussalam
29. Ms Rasidah Junaidi Head of Mathematics Unit, Ministry of Education, Brunei Darussalam
30. Ms Hjh Siti Raudah Huzaimah Hj Abd Wahab Acting Head of technology Studies, Ministry of Education, Brunei Darussalam
31. Ms Norkartini Hj Md Noor English Language Unit, Ministry of Education, Brunei Darussalam
32. Ms Sheila Shahar Al-Johary SEA-PLM Focal Person, Ministry of Education, Brunei Darussalam
33. Mr. Ung Chinna Deputy Director, Education, Quality Assurance Department, Ministry of Education, Cambodia
34. Mrs Siphaphone Manivanh Deputy Director, Preschool and Primary Education Department, Ministry of Education, Lao PDR
35. Datin Dr Ng Soo Boon Deputy Director, Curriculum Development Division, Ministry of Education, Malaysia
36. Tuan Hj Saiful Bahri bin Mohd Nor Asst. Director of Education, Examination Syndicate, Ministry of Education, Malaysia
37. Dr. Nelia V. Benito Director, NETRC, Department of Education, Philippines
38. Ms Waraporn Plukpunyakul Director, Human Resources Development Unit Upper Secondary Education Bureau, Ministry of Education, Thailand

SEA BES CCRLS PICTORIALS



