



Mission Report

10th SEAMEO Regional Centre for QITEP in Science Governing Board Meeting

Date: 17th – 21st September 2019
Venue: Savoy Homann Hotel
Bandung, Indonesia

Prepared by
Dr. Wahyudi
Deputy Director of Programme and Development

A. SEAMEO Officials and Staff Member on Mission

1. Dr. Wahyudi
Deputy Director of Programme and Development

B. Background, Description and Objectives of the Activity

1. The 10th Governing Board (GB) Meeting of SEAMEO Regional Centre for Quality Improvement of Teachers and Education Personnel (QITEP) in Science, hereinafter referred to as SEAQIS, was convened from 17th to 21st September 2019 at Savoy Homann Hotel, Bandung, West Java, Indonesia. Seven out of eleven GB Members and representatives attended the meeting. The opening ceremony was graced by Mr Uu Ruzhanul Ulum, the Vice Governor of West Java Province. Representing the SEAMEO Secretariat Director was the Deputy Director for Programme and Development and the Director of SEAQIS attending as Ex Officio Members of the Governing Board.
2. SEAQIS GB Meeting is an important event for the SEAMEO QITEP in Science where the Centres propose and seek approval and guidance regarding its programmes and activities. In addition, the meeting can provide valuable technical inputs and professional advices to the Centres thus contributing to the sustainable development of human resources in the region through the enhancement of education, science and culture.

C. Participants

1. SEAMEO QITEP in Science Director and Staff.
2. Governing Board members and representatives from Indonesia, Lao PDR, Myanmar, Singapore, Thailand, Timor-Leste and Vietnam.
3. DDPD, SEAMEO Secretariat.

D. Organizer/s

1. SEAMEO QITEP in Science

E. Highlight of the Activity/Summary Points

1. The opening ceremony was commenced with a traditional dance performance by students of SMKN 1 Bandung and followed by the Indonesian Anthem, Indonesia Raya performed by the Choirs of SMKN 1 Bandung, Swara Wastu; the SEAMEO Colours presentation; and the SEAMEO song, Building the Future, also performed by the Choirs of SMKN 1 Bandung, Swara Wastu.
2. The Director of SEAQIS expressed her gratitude to the GB Members, SEAMEO Secretariat, and partner institutions for the progress and achievements accomplished by the Centre during this reporting period.
3. The SEAMES Representative presented the 2018/2019 key significant policies and programmes as well as operational matters taken from all the SEAMEO meetings in 2018/2019.
4. A total of 13 Working papers were presented for information and discussions by the GBM:
 - I. Matters for Acknowledgment
 - II. Follow-Up Actions on the Decisions of SEAMEO Meetings
 - III. Financial Report of SEAMEO QITEP in Science for FY 2018/2019
 - IV. Proposed Operational Budget covering Fiscal Year 2020/2021, 2021/2022, and 2022/2023 and Personnel Strength Budget for Fiscal Year 2020/2021
 - V. Annual Report on Programmes and Activities Year 2018/2019
 - VI. Proposed Programmes for FY 2020/2021
 - VII. Proposal on the Development of the Third Five-Year Development Plan
 - VIII. Proposal for Establishment of Regional Office for Climate Education (R-OCE)
 - IX. Proposed Programme on Integrating Computational Thinking to Science Learning
 - X. Proposal for 2020's Research Studies of SEAMEO QITEP in Science
 - XI. Report on Research Studies of SEAMEO QITEP in Science in Fiscal Year 2018/2019
 - XII. Progress Report on the 5th SEAMEO QITEP in Science Research Grants
 - XIII. Report on Staff Capacity Building on IBSE and STEM Education Programme

F. Role/Participation of SEAMEO

1. SEAMEO Secretariat is an ex-officio member of the SEAMEO QITEP in Science governing board.
2. On behalf of the SEAMEO Secretariat Director, DDPD delivered opening remarks during the opening ceremony.

G. Follow-up Actions Needed

N.A.

H. Appendices/Related Conference Materials and Outputs

1. The 10th SEAQIS GBM Proceedings is attached in Appendix 1 for reference.

Appendix 1

PROCEEDINGS
THE 10th GOVERNING BOARD MEETING
SEAMEO REGIONAL CENTRE FOR QITEP IN SCIENCE
Bandung, Indonesia
17th to 21st September 2019

INTRODUCTION

- 1 The 10th Governing Board (GB) Meeting of SEAMEO Regional Centre for Quality Improvement of Teachers and Education Personnel (QITEP) in Science, hereinafter referred to as **SEAQIS**, was convened from 17th to 21st September 2019 at Savoy Homann Hotel, Bandung, West Java, Indonesia.

- 2 Seven out of eleven GB Members and representatives attended the meeting. They were 1) Dr Sediono Abdullah, GB Member from Indonesia, 2) Assoc Prof Vong Deuan Osay, GB Member from Lao PDR; 3) Prof Ni Ni Than, GB Member from Myanmar; 4) Mr Lau Chor Yam, GB Member from Singapore; 5) Dr Supunee Chanprasert, representative of Prof Sukit Limpijumngong, GB Member from Thailand; 6) Ms Veronica Moreira Correira, GB Member from Timor Leste; and 7) Prof Dr Pham Quang Trung, GB Member from Vietnam (see **Annex 1**). During the opening ceremony, the meeting was also attended by Mr Uu Ruzhanul Ulum, the Vice Governor of West Java Province; Dr Dewi Sartika, the Head of Education Office of West Java Province; Mr Dani Ramdan, the Head of Bureau of Governance and Partnership of West Java Province; Dr Wahyudi, the Deputy Director (Programme and Development) of SEAMEO Secretariat; Dr Indrawati, the Director of SEAMEO QITEP in Science, and staff members of SEAMEO QITEP in Science. The observers at the meeting were Ms Bertauli Manihuruk and Ms Mari Sugiah from Bureau of Planning and International Cooperation, the Ministry of Education and Culture of the Republic of Indonesia; and Ms Anggraeni Kusumadewi from Centre for Development and Empowerment of Teachers and Education Personnel (CDETEP) in Science.

OPENING FORMALITIES

- 3 The opening ceremony was conducted on Wednesday, 18th September 2019 at 0900hrs, at Palace Room, Savoy Homann Hotel, Bandung, Indonesia.

- 4 The opening ceremony was commenced with a traditional dance performance by students of SMKN 1 Bandung and followed by the Indonesian Anthem, Indonesia Raya performed by the Choirs of SMKN 1 Bandung, Swara Wastu; the SEAMEO Colours presentation; and the SEAMEO song, Building the Future, also performed by the Choirs of SMKN 1 Bandung, Swara Wastu.

Welcome Remarks by the Director of SEAQIS

- 5 The Director of SEAQIS expressed her gratitude to the GB Members, SEAMEO Secretariat, and partner institutions for the progress and achievements accomplished by the Centre during this reporting period.

- 6 She highlighted some of the Centre's programme accomplishments for the Fiscal Year 2018/2019 including the increased number of teachers and education personnel participating in various activities and programmes such as Research Grants and STEM education development. She also pointed out new institutions collaborating with the Centre in conducting those programmes such as Office for Climate Education, France; The Network on Education Quality Monitoring in the Asia-Pacific (NEQMAP) UNESCO; and Pakistan Space Science Education Centre (PSSEC), Pakistan. She then further emphasized that the Centre continues to develop STEM Education that is suitable for the current global education trend in the era of industrial revolution 4.0.
- 7 Her welcome remarks is attached in **Annex 2**.

Remarks by the Deputy Director (Programme and Development) of SEAMEO Secretariat

- 8 The Deputy Director (Programme and Development) of SEAMEO Secretariat warmly greeted GB Members, the Centre Director, and all the attendees. He expressed his appreciation for the convening of the 10th GB Meeting of SEAQIS.
- 9 He stated that the GB Meeting is an important event for the SEAMEO Centres where the Centres propose and seek approval and guidance regarding its programmes and activities. In addition, the meeting can provide valuable technical inputs and professional advices to the Centres thus contributing to the sustainable development of human resources in the region through the enhancement of education, science and culture. He also specified that SEAMEO has contributed a lot to the whole Southeast Asian region over the last five decades through the SEAMEO Centres.
- 10 He then congratulated the Centre for all significant achievements in enhancing the quality of science education in the region.
- 11 His remarks is attached in **Annex 3**.

Opening Remarks by Vice Governor of West Java Province

- 12 The Vice Governor of West Java Province warmly greeted all the attendees.
- 13 He pointed out the significances of SEAMEO Centres in improving the quality of education in West Java Province. He also highlighted that the majority of Indonesian citizen currently are the millennials and to survive in this era, education should be put in the first place.
- 14 He expected that the meeting could be a strategic move in developing the characteristics of the millennials to face the challenges in the era of industrial revolution 4.0 through programmes and activities conducted by SEAQIS.
- 15 He then wished all the GB Member to have a fruitful meeting.
- 16 His opening remarks is attached in **Annex 4**.

Token of Appreciation Presentation

- 17 The Director of SEAQIS presented a token of appreciation to the Vice Governor of West Java Province, for his support. She also presented a token of appreciation to SMKN 1 Bandung, represented by Ms Dini Siti Anggraeni, for their involvement during the opening ceremony of the Meeting.
- 18 The Deputy Director (Programme and Development) of SEAMEO Secretariat, accompanied by the Director of SEAQIS presented a token of appreciation to the Vice Governor of West Java Province for his support. He also presented a token of appreciation to the Director of SEAQIS, for her dedication and support to the Secretariat.

Photo sessions

- 19 The Opening ceremony was concluded by group photo sessions.

GOVERNING BOARD MEETING

Introduction of Delegates

- 20 The Director of SEAQIS started the meeting and requested GB Members and observers to introduce themselves. She started the introduction session by introducing the management members of the Centre, then continued by the introduction of GB Members who attended the Meeting including Prof Dr Pham Quang Trung, GB Member from Vietnam; Ms Veronica Moreira Correia, GB Member from Timor Leste; Dr Supunee Chanprasert, representative of Prof Sukit Limpijumnong, GB Member from Thailand; Mr Lau Chor Yam, GB Member from Singapore; Prof Ni Ni Than, GB Member from Myanmar; Assoc Prof Vong Deuan Osay, GB Member from Lao PDR; Dr Sediono Abdullah, GB Member from Indonesia. Lastly, the introduction of the observers were started by Ms Anggraeni Kusumadewi from Centre for Development and Empowerment of Teachers and Education Personnel in Science; Ms Bertauli Manihuruk, and Ms Mari Sugiah from Bureau for Planning and International Cooperation, Ministry of Education and Culture of the Republic of Indonesia.

Election of Chairperson and Vice-Chairperson

- 21 The Director of SEAQIS led the election. She reminded the meeting that the GB Member from Singapore supposed to chair the meeting since his term is still in force.
- 22 The meeting agreed that the GB Member from Singapore is to be the chairperson of the meeting.
- 23 The meeting also agreed that the GB Member from Timor Leste is still the vice-chairperson of the meeting.

Election of the Chief Rapporteur

- 24 The chairperson led the election of the chief rapporteur of the Meeting. The meeting agreed to elect GB Member from Lao PDR as the chief rapporteur of the 10th GB Meeting.

Adoption of Tentative Agenda and Programme

- 25 The Chairperson informed the meeting about the tentative agenda and programmes.
- 26 All GB Members approved the proposed agenda and programmes.

Presentation of Significant Policy, Points, Agreements and Actions Taken on Key Agenda Items from SEAMEO Meetings in FY 2018/2019

- 27 The presentation was delivered by the Deputy Director (Programme and Development) of SEAMEO Secretariat.
- 28 He presented the significant policy, points, agreements and actions taken on key agenda items from SEAMEO meetings in the fiscal year 2018/2019 (See **Annex 5**).

Decision of the 10th GB Meeting:

- 29 The 10th GB Meeting took note of the significant policies, points, agreements and actions taken on key agenda items from SEAMEO meetings in the fiscal year 2018/2019.

Presentation of Working Papers

I. Matters for Acknowledgement (QITEP in Science 10th GBM/WP1/AC)

- 30 The working paper was presented by the Director of SEAQIS. The paper informed the meeting of the changes at ministerial and high official levels in the Ministry of Education of SEAMEO Member Countries, Governing Board Members and personnel changes in SEAQIS.

Discussion

- 31 GB Member from Indonesia ensured the correct spelling on the title of present Minister of Education of Timor Leste.
- 32 The representative of GB Member from Thailand informed the meeting of the changes in the Ministry of Education of Thailand. She announced that the current Minister of Education of Thailand is HE Nataphol Teepsuwan.

Decision of the 10th GB Meeting:

- 33 The 10th GB Meeting took note of the changes of the ministers, high officials and staff of the Centre.

II. Follow-Up Actions on the Decisions of SEAMEO Meetings (QITEP in Science 10th GBM/WP2/AP)

- 34 The working paper was presented by the Director of SEAQIS. The paper informed the 10th GB Meeting of the Follow-up Actions taken by SEAQIS on the decisions of the 9th SEAQIS' Governing Board Meeting, the 41st SEAMEO High Officials Meeting, the SEAMEO Centre Directors Meeting 2019, and the 50th SEAMEO Council Meeting.

Discussion

- 35 GB Member from Indonesia suggested making One Community ASEAN through SEA Digital Class programme. He requested all GB members to support the programme as well as apply lesson learnt from Singapore.
- 36 The Deputy Director (Programme and Development) of SEAMEO Secretariat expressed his appreciation to the Centre upon the SEA Digital Class programme and encouraged to continue the programme. He also suggested utilising the facilitator of Virtual Coordinator Training in running the programme.
- 37 The Deputy Director for Programme of SEAQIS elaborated the challenges while conducting the programme. She stated that one of the challenges was concerning the commitment of the participants. She further explained that the programme has been accomplished. Regarding continuing the SEA Digital Class, SEAQIS returns the mandate to the Secretariat to determine which Centre to lead the programme. She also added that SEAQIS is willingly to involve in the programme but not as the leading sector.
- 38 Deputy Director (Programme and Development) of SEAMEO Secretariat responded that the Secretariat took note and would consider transferring into Digital Literacy programme.
- 39 GB Member from Timor Leste requested the Centre to provide the data of SEA Digital Class participants from Timor Leste.
- 40 The Deputy Director for Programme of SEAQIS responded that the data will be provided after the meeting.

Decision of the 10th GB Meeting:

- 41 The 10th GB Meeting approved the Follow-Up Actions on the Decisions of SEAMEO Meetings.

III. Financial Report FY 2018/2019 (QITEP in Science 10th GBM/WP3/AP)

- 42 The working paper was presented by the Deputy Director for Administration of SEAQIS, to seek approval of the 10th GB Members on the Financial Report Fiscal Year 2018/2019.
- 43 The working paper elaborated the financial report Fiscal Year 2018/2019 which includes financial statements for Capital Fund, Operation Fund, Special Fund and Other Fund that has been audited by an external auditor.

Discussion

- 44 GB Member from Vietnam suggested adding the percentage of the budgeting for comparison of each fiscal year and further improvement.

Decision of the 10th GB Meeting:

45 The 10th GB meeting approved the Financial Report FY 2018/2019.

IV. Proposed Operational Budget covering Fiscal Year 2020/2021, 2021/2022, and 2022/2023 and Personnel Strength Budget for Fiscal Year 2020/2021 (QITEP in Science 10th GBM/WP4/AP)

46 The working paper was presented by the Deputy Director for Administration of SEAQIS, to seek approval of the 10th GB Meeting on the Proposed Three-Year Budget of SEAQIS for 2020/2021, 2021/2022, and 2022/2023 and Personnel Strength Budget for Fiscal Year 2020/2021.

47 The Proposed Operational Budget covers the budget for Fiscal Year 2020/2021, Fiscal Year 2021/2022, Fiscal Year 2022/2023, and Personnel Strength Budget for Fiscal Year 2020/2021. The main fund for the operation of the SEAMEO Regional Centre for QITEP in Science is provided by the Government of Indonesia. The budget system applied in Indonesia is based on Performance-Based Budgeting. (see Annex of QITEP in Science 10th GBM/WP4/AP).

Discussion

48 GB Member from Vietnam enquired the small increased amount of budgets from the Fiscal Year 2019/2020 to Fiscal Year 2020/2021 compared to the big increased amount of budgets from the Fiscal Year 2021/2022 to Fiscal Year 2022/2023. He also enquired the small number of international relation officers. He suggested adding more staff in international cooperation since it is a very important matter.

49 The Deputy Director for Administration of SEAQIS replied that the Centre maintains the number of staff which implicates to the small increased amount of budget. She further elaborated that the Centre could not propose the budget for Fiscal Year 2020/2021 because it has been determined by the Government of Indonesia. Nevertheless, for Fiscal Year 2021/2022 and 2022/2023, the Centre is able to propose the budget ideally that is increasing 15% compared to the previous fiscal year.

50 Regarding the international relation officer, she responded that the international relation matters are held by four officers within Partnership, Public Relation, and Marketing Division, and further tasks are assisted by the Secretariat of SEAQIS.

Decision of the 10th GB Meeting:

51 The 10th GB meeting approved the Proposed Three-Year Budget of SEAQIS for 2020/2021, 2021/2022, and 2022/2023 and Personnel Strength Budget for Fiscal Year 2020/2021 of SEAQIS.

V. Annual Report on Programmes and Activities Year 2018/2019 (QITEP in Science 10th GBM/WP5/AP)

52 The working paper was presented by the Deputy Director for Programme of SEAQIS, to seek approval of the 10th GB Members on the Annual Report Fiscal Year 2018/2019.

- 53 The paper explained that in the Fiscal Year 2018/2019, the Centre conducted the following programmes and activities: i) Training Courses, ii) Workshops, iii) Staff Capacity Building, iv) Collaboration and Networking, and v) Promotion of the Centre programmes and activities through various strategies, such as displays, printed materials, website, visits and seminars.

Discussion

- 54 GB Member from Indonesia suggested to maintain the success story of the Centre and use it as the baseline for conducting the programmes in the next coming years. He added that this could be used to increase the sense of belonging or the awareness of the alumni so that the alumni could be either the agent or accelerator of change in their respected countries as networking for partnership in the future of one community of ASEAN.
- 55 GB Member from Timor Leste expressed her gratitude and appreciation to the Centre regarding the programmes conducted in Timor Leste. She added that the programmes were very useful and helpful. She also informed that the In-Country Training this year in Timor Leste could not be executed due to the changing structure in the training institution, however, she had proposed for the next year.
- 56 GB Member from Myanmar enquired whether the learning video produced by the Centre could be accessed in other SEAMEO member countries.
- 57 Deputy Director for Programme of SEAQIS appreciated the suggestions of the GB member from Indonesia. Furthermore, she stated that due to the budget constraint, the face-to-face training mode is very limited therefore the Centre developed the online training mode. She also added that the Centre welcomes any request from other SEAMEO member countries to conduct programmes and activities in their respective countries using self-funding scheme.

Decision of the 10th GB Meeting:

- 58 The 10th GB meeting approved the Annual Report on Programmes and Activities Year 2018/2019.

VI. Proposed Programmes for FY 2020/2021 (QITEP in Science 10th GBM/WP6/AP)

- 59 The working paper was presented by the Deputy Director for Programme to seek approval of the 10th GB Meeting on the proposed programmes and the activities of SEAMEO Regional Centre for QITEP in Science for Fiscal Year 2020/2021.
- 60 This paper described the proposed programmes and activities for Fiscal Year 2020/2021 which covers training, learning material development, research and development, workshop/seminar/conference, and staff capacity building.

Discussion

- 61 GB Member from Timor Leste enquired whether the NEQMAP capacity development workshop could be participated by teachers from any SEAMEO member countries.
- 62 GB Member from Vietnam requested to elaborate more on Regional Visibility.
- 63 Deputy Director for Programme of SEAQIS replied that the NEQMAP capacity development workshop was attended by participants not only SEAMEO member countries but also beyond. She then elaborated that the Regional Visibility is about the recognition of other institutions both national and international to SEAQIS' existence.
- 64 GB Member from Indonesia suggested that the smart school is a part of the proposed programmes. He also added that the SEAMEO Centres could adopt the best practice like West Java's Smart School programme to be implemented in the region.
- 65 Deputy Director for Programme of SEAQIS responded that the Centre's programmes are already under the 'smart school' principles, but SEAQIS does not mention it explicitly due to the branding, and SEAQIS is now collaborated with SEAMEO Indonesian Centres Coordinator to conduct the SEAMEO School 4.0.
- 66 Deputy Director (Programme and Development) of SEAMEO Secretariat agreed that 'Smart School' is already known widely. He then suggested that if SEAQIS involves in West Java's Smart School programme, then it could be upscaled to the regional level.

Decision of the 10th GB Meeting:

- 67 The 10th GB meeting approved the Proposed Programmes for FY 2020/2021 with some inputs to be considered.

VII. Proposal on the Development of the Third Five-Year Development Plan (QITEP in Science 10th GBM/WP7/AP)

- 68 The working paper was presented by the Director of SEAQIS to seek approval and inputs of the 10th Governing Board Meeting on the development of SEAQIS' Third Five-Year Development Plan (FYDP) 2020/2021 -2024/2025.

Decision of the 10th GB Meeting:

- 69 The 10th GB meeting approved the Proposal on the Development of the Third Five-Year Development Plan.

VIII. Proposal for Establishment of Regional Office for Climate Education (R-OCE) (QITEP in Science 10th GBM/WP8/AP)

- 70 The working paper was presented by Deputy Director for Programme of SEAQIS to provide information and to seek for support and approval from the 10th Governing Board Meeting on the establishment of Regional Office for Climate Education (R-OCE).

Discussion

- 71 GB Member from Indonesia suggested changing the terminology of the Office to be Regional Networking Centre on Climate Change Education.
- 72 Deputy Director for Programme of SEAQIS clarified that the term 'Office' is inspired from SEAMEO College and it refers to networking instead of a building. This term has been used by the La Main a la Pate (LAMAP) Foundation, France, that initiates the Office for Climate Education.
- 73 GB Member from Vietnam supported the establishment of the Office. He then advised that the concept note should be enhanced, elaborated, and provided more detail information regarding the preparation of the programme. He also suggested the Centre collaborate with universities running the programme.
- 74 Deputy Director (Programme and Development) of SEAMEO Secretariat seconded the advice. He added that the Secretariat will fully support the programme if it is visible in terms of the budget and human resources.
- 75 GB Member from Lao PDR also suggested the Centre put more detailed information in the concept note.
- 76 Deputy Director for Programme of SEAQIS accepted the advice and would take action soon after the Working Paper is approved.

Decision of the 10th GB Meeting:

- 77 The 10th GB meeting approved the Proposal for Establishment of Regional Office for Climate Education (R-OCE) with some inputs to be considered.

IX. Proposed Programme on Integrating Computational Thinking to Science Learning (QITEP in Science 10th GBM/WP9/AP)

- 78 The working paper was presented by Deputy Director for Programme of SEAQIS to seek inputs and approval from the 10th Governing Board Meeting for the improvement of the Programme on Integrating Computational Thinking to Science Learning.

Discussion

- 79 The Chairperson stated that the Computational Thinking could be for Mathematics and Science. He wondered whether SEAMEO QITEP in Mathematics (SEAQIM) also develops Computational Thinking.
- 80 Deputy Director (Programme and Development) of SEAMEO Secretariat responded that during his directorship, there was no information regarding the Computational Thinking Course in Mathematics. However, he added that SEAQIM has a long partnership with CRICED which donated 10 robotics about Computational Thinking. He then assumed that Computational Thinking is part of mathematical thinking.

- 81 The expert of SEAQIS, as requested by the Director of SEAQIS, clarified that regarding the Computational Thinking, SEAQIS also collaborated with CRICED of Tsukuba University with the same 10 robotic packages like SEAQIM, however, Computational Thinking is not merely part of Mathematical Thinking. As Computational Thinking would be the fifth C's, it is essential for SEAQIS to develop more in STEM education.
- 82 The representative of GB Member from Thailand informed that Computational Thinking has been implemented in Thailand' curriculum. She added that IPST has conducted teacher training in Computational Thinking, even though in the implementation there are challenges.

Decision of the 10th GB Meeting:

- 83 The 10th GB Meeting approved Proposed Programme on Integrating Computational Thinking to Science Learning.

X. Proposal for 2020's Research Studies of SEAMEO QITEP in Science (QITEP in Science 10th GBM/WP10/AP)

- 84 The working paper was presented by the Head of Research and Development and IBSE Capacity Building Division to seek inputs and approval from the 10th Governing Board Meeting 2019.

Discussion

- 85 The expert of SEAQIS, as requested by the Director of SEAQIS, suggested putting Technological Pedagogical Content Knowledge (TPACK) instead of Transversal Competencies.
- 86 GB member from Vietnam questioned why STEM approach is employed in SEAQIS' research.
- 87 The Head of Research and Development and IBSE Capacity Building Division replied that SEAQIS will consider the inputs.
- 88 The expert of SEAQIS, as requested by the Director of SEAQIS, clarified that teachers' resentment on STEM learning is due to their less experienced and SEAQIS workshop series on STEM learning to science teachers reduce teachers' resentment.
- 89 GB Member from Lao PDR stated that STEM is not a teaching method, it is more to an applied content knowledge to prepare the students to be ready for lifelong learning.
- 90 GB Member from Indonesia suggested the Centre conduct research on STEM about gender equity.
- 91 GB Member from Lao PDR stated that research on Gender-Responsive Pedagogy in STEM Education would be interesting.

Decision of the 10th GB Meeting:

92 The 10th GB approved the Proposal for 2020's Research Studies of SEAMEO QITEP in Science, with some inputs to be considered.

XI. Report on Research Studies of SEAMEO QITEP in Science in Fiscal Year 2018/2019 (QITEP in Science 10th GBM/WP11/IN)

93 The working paper was presented by Head of Research and Development and IBSE Capacity Building Division to inform and seek inputs from the 10th Governing Board Meeting of Report on Research Studies of SEAMEO QITEP in Science in Fiscal Year 2018/2019.

Decision of the 10th GB Meeting:

94 The 10th GB Meeting took note the Report on Research Studies of SEAMEO QITEP in Science in Fiscal Year 2018/2019.

XII. Progress Report on the 5th SEAMEO QITEP in Science Research Grants (QITEP in Science 10th GBM/WP12/IN)

95 The working paper was presented by Head of Research and Development and IBSE Capacity Building Division to inform the 10th Governing Board Meeting on the result of the 4th Science Research Grants and the progress of the 5th Science Research Grants offered by SEAQIS.

Discussion

96 GB Member from Indonesia stated that the result of the study should be learning materials compilation as a starting point to make other teachers follow up in their school. He then recommended to make the learning materials compilation for teachers references as open education resources and distributed not only to the Indonesian but also for regional members.

97 Deputy Director (Programme and Development) of SEAMEO Secretariat advised the Centre to increase the number of grantees by decreasing the amount of the grant since teachers consider the recognition instead of the money.

98 Deputy Director for Administration of SEAQIS explained that the number of grantees for next year will be increased and the amount of grant will be similar to the preceding year. She added that the recipient candidates are not only from Indonesia, but also from other SEAMEO member countries.

99 GB Member from Timor Leste inquired how to access the information concerning the research grant.

- 100 Officer of Research, Development, and IBSE Capacity Building Division, as requested by the Director of SEAQIS, replied that the information could be accessed through the Centre's website and social media.

Decision of the 10th GB Meeting:

- 101 The 10th GB Meeting took note the 5th SEAMEO QITEP in Science Research Grants conducted in 2018 and the progress of the Science Research Grants 2019.

XIII. Report on Staff Capacity Building on IBSE and STEM Education Programme (QITEP in Science 10th GBM/WP13/IN)

- 102 The working paper was presented by Deputy Director for Administration of SEAQIS to inform and seek advice the 10th Governing Board Meeting 2019 on the Centre's Staff Capacity Building on Inquiry-Based Science Education (IBSE) and Science, Technology, Engineering and Mathematics (STEM) Education.

Discussion

- 103 GB Member from Lao PDR suggested conducting the Needs Assessment for the staff on what aspects need to be improved.
- 104 Deputy Director for Administration of SEAQIS replied that at the beginning of the year, Centre conducted workshop to define the needs of conducting capacity building activities for staff.

Decision of the 10th GB Meeting:

- 105 The 10th Governing Board Meeting took note on Centre's Staff Capacity Building on IBSE and STEM Education.

Other Matters

XIV. Proposed Date and Venue of the 11th GBM 2019

- 106 The working paper was presented by the Director of SEAQIS to propose the date and venue of the 11th GBM 2020.

Decision of the 10th GB Meeting:

- 107 The 10th GB Meeting approved that the next GB Meeting would be conducted from 15th to 19th September 2020 and agreed that Lombok will be the next venue.

Review and Adoption of the Final Proceedings

- 108 The 10th GB meeting reviewed and adopted the final proceedings of the meeting. The final proceedings reviewed in this GB Meeting would be sent to GB Members after the GB meeting.

Closing Remarks

- 109 The closing ceremony of the 10th Governing Board Meeting was conducted on 20th September 2019 at Palace Room, Savoy Homann Hotel, by the Chairperson of the Governing Board Meeting. He expressed his sincere gratitude to all GB members for the valuable inputs for the development of science education in the region.
- 110 The Chairperson of the meeting officially concluded the 10th Governing Board Meeting.

Bandung, 20th September 2019
Prepared by

Assoc Prof Vong Deaun Osay
Chief Rapporteur

Rapporteur team:

1. Dr Elly Herliani
2. Arif Hidayat, Ph.D.Ed.
3. Mr Reza Setiawan
4. Mr Rizwan Darmawan
5. Mr Zuhe Safitra
6. Mr Lukman Nulhakim
7. Mr Heri Setiadi
8. Mr Haidar Helmi
9. Mr Dito Prasetyo

Annex

1. List of Delegates, Observers, and Committee
2. Welcome Remarks by Director of SEAQIS
3. Remarks by the Representative of SEAMEO Secretariat
4. Opening Remarks by Vice Governor of West Java Province
5. Tentative Agenda
6. Working Papers

Bandung, 20th September 2019
Approved by,

No.	Name	Signature
1.	Dr Wahyudi	
2.	Dr Sediono Abdullah	
3.	Assoc Prof Vong Deuan Osay	
4.	Dr Ni Ni Than	
5.	Mr Lau Chor Yam	
6.	Dr Supunnee Chanprasert	
7.	Ms Veronica Moreira Correia	
8.	Prof Pham Quang Trung	

ANNEX 1**List of Delegates, Observers, and Committee**

No	Name	Institution	Designation
1.	Dr Wahyudi	SEAMEO Secretariat	Deputy Director (Programme and Development)
2.	Dr Sediono Abdullah	Centre for Information and Communication Technology, Ministry of Education and Culture	Learning Technology Developer
3.	Assoc Prof Vong Deuan Osay	Department of Teacher Education Ministry of Education and Sports	Deputy-General Director
4.			
5.	Dr Ni Ni Than	Department of Chemistry Yangon University, Myanmar	Professor
6.	Mr Lau Chor Yam	Academy of Singapore Teachers, Ministry of Education, Singapore	Master Teacher
7.	Dr Supunnee Chanprasert	Institute for the Promotion of Teaching Science and Technology, Thailand	Executive Director
8.	Ms Veronica Moreira Correia	National Commission for UNESCO Timor-Leste c/o Ministry of Education and Culture, Timor Leste	Science Teacher Trainer
9.	Prof Pham Quang Trung	National Academy of Education Management, Ministry of Education and Training, Vietnam	Rector
10.	Mrs Bertauli Manihuruk	Bureau of Planning and International Cooperation Ministry of Education and Culture, Indonesia	Staff
11.	Mrs Mari Sugiah	Bureau of Planning and International Cooperation Ministry of Education and Culture, Indonesia	Staff
12.	Mrs Anggraeni Kusumadewi	Centre for Development and Empowerment of Teachers and Education Personnel (CDETEP) in Science	Head of General Affairs Department
13.	Dr Indrawati	SEAMEO QITEP in Science	Director
14.	Dr Indarjani	SEAMEO QITEP in Science	Deputy Director of Program
15.	Ms Lili Indarti	SEAMEO QITEP in Science	Deputy Director of Administration
16.	Dr Elly Herliani	SEAMEO QITEP in Science	Head of Research, Development, and IBSE Capacity Building Division
17.	Mr Reza Setiawan	SEAMEO QITEP in Science	Head of Programme and Training Division

No	Name	Institution	Designation
18.	Dr Dedi Herawadi	SEAMEO QITEP in Science	Head of Finance, Personnel, and Infrastructure Division
19.	Mr Zuhe Safitra	SEAMEO QITEP in Science	Head of Partnership, Public Relation and Marketing Division
20.	Dr Poppy Kamalia Devi	SEAMEO QITEP in Science	Head of ICT and Network Division
21.	Mr Rizwan Darmawan	SEAMEO QITEP in Science	Head of Secretariat
22.	Mr Arif Hidayat PhD	SEAMEO QITEP in Science	Expert
23.	Mr Dito Prasetyo	SEAMEO QITEP in Science	Secretary
24.	M Haidar Helmi	SEAMEO QITEP in Science	Research, Development and IBSE Capacity Building Officer
25.	Mr Lukman Nulhakim	SEAMEO QITEP in Science	Research, Development and IBSE Capacity Building Officer
26.	Mr Heri Setiadi	SEAMEO QITEP in Science	Training Officer
27.	Octo Litadiputra Reinaldy	SEAMEO QITEP in Science	ICT Network Officer
28.	Mr Prima Dermawan	SEAMEO QITEP in Science	ICT Network Officer
29.	Ms Lintang Ratri Prastika	SEAMEO QITEP in Science	Public Relations Officer
30.	Mr Hamriana	SEAMEO QITEP in Science	Finance Officer
31.	Ms Tika Karlina	SEAMEO QITEP in Science	Finance Officer
32.	Ms Amallia Yuliana	SEAMEO QITEP in Science	Public Relations Officer
33.	Mr Agus Nugraha	SEAMEO QITEP in Science	General Affairs Officer
34.	Mr Asep Supardi	SEAMEO QITEP in Science	Service Officer

Photos



GB members of SEAQIS, Guest of Honour, SEAQIS Director and staff and representative of SEAMEO Secretariat



Director of SEAQIS, GB Member of Singapore as the Chairman, and SEAMEO Secretariat Representative