



1997



2017

2 Decades of Servicing
Southeast Asia in Open
and Distance Learning

Contents

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002

Preface

005

About SEAMOLEC

006

The Big Family of SEAMOLEC

008

Milestone

010

Vision and Mission

011

SEAMOLEC Services to the Region

054

Previous Directors

056

Organizational Structure

058

Facilities

Preface

Assalamu'alaikum wr wb

Greetings from SEAMOLEC in Jakarta.

It is our great pleasure to present this book to all of you. It is also an expression of our gratitude to God to reflect our history path of SEAMOLEC's performance during the past two decades. Along with this book we take you to join the two-decades journey of SEAMOLEC since its establishment. The journey that has been led by our former directors.

In this book you will find the milestones of SEAMOLEC as one of SEAMEO Centres; its various activities and programs that have been launched and implemented for the benefit of educational sector in 11 SEAMEO member countries. SEAMOLEC's activity is engaged in the development of ICT technology to disseminate ODL, identify educational problems faced by Southeast Asian countries to improve human resource capacity in the mastery of ICT.

The history began on the 32nd SEAMEO Council Conference held in Manila on 27 February 1997 which decided to establish SEAMOLEC. The Council agreed and approved the Centre's establishment to be hosted by the Department of Education and Culture (now the Ministry of Education and Culture (MOEC)) of the Republic of Indonesia. The office of the Centre was at the Information and Communication Technology (ICT) Center for Education (also known as PUSTEKKOM).

Our highest appreciation goes to the former Directors of SEAMOLEC who have paid great contribution to the growth of this center. The contribution of our former Directors is the biggest factor that gives clear and smooth direction for SEAMOLEC programmes from time to time.

We also would like to deliver our appreciation to SEAMOLEC partners who has willingly collaborate and synergize in executing many fruitful programs. Our appreciation also goes to SEAMOLEC's colleagues, partners, and staffs, who have given their thought, effort, and actions to help our center in realizing its vision and mission.

With our motto "to reach the unreachable, making the world into one world of learning", SEAMOLEC always seeks the potential initiatives to develop synergy with educational institutions together with SEAMEO member countries, associate member countries, and inter-center collaborations. SEAMOLEC tries to identify educational problems of Southeast Asian countries by implementing the SEAMEO seven priorities agenda, especially in building ICT literacy and cultural habituation.

You may also find pictures of facilities owned by the centre covered in this book. We have a number of facilities such as classrooms, computer labs, video conference room, library, and meeting rooms. Moreover, SEAMOLEC has supporting facilities such as prayer room, cafeteria, and also children playground.

SEAMOLEC is assured that collaboration will enable Centre to answer enormous challenges to achieve its vision and mission. Hopefully our partners and colleagues can take advantage from SEAMOLEC's program. We are always open for the opportunity of cooperation and initiative in strengthening education across generations in Southeast Asia and beyond.

Wassalamu'alaikum Wr. Wb.



About SEAMOLEC

SEAMOLEC is a regional Centre under the SEAMEO (Southeast Asian Ministers of Education Organization) that specifically deals with the development of open and distance learning (ODL) in Southeast Asia. As a regional Centre that is located in Indonesia, SEAMEO Regional Open Learning Centre (SEAMOLEC) has taken initiatives in applying ICT-based for distance education. The vision of SEAMOLEC is to be the center of expertise in ODL, and its mission is to assist SEAMEO member countries in identifying educational problems and finding alternative solutions for sustainable human resource development through the dissemination and effective use of ODL.

In line with its vision and mission since its establishment on February 27, 1997, SEAMOLEC has greatly contributed to improve both quantity and quality of education services through ODL by conducting many researches in ODL, providing consultation on how to develop ODL, and establishing collaboration with many educational institutions (schools/universities/others) to encourage to foster the use of ODL. The collaboration includes conducting courses to develop information technology (IT) based teaching and learning materials, enhancing the IT-literacy of educators to enable them in integrating ICT into their teaching process as well as planning and designing the ODL systems.

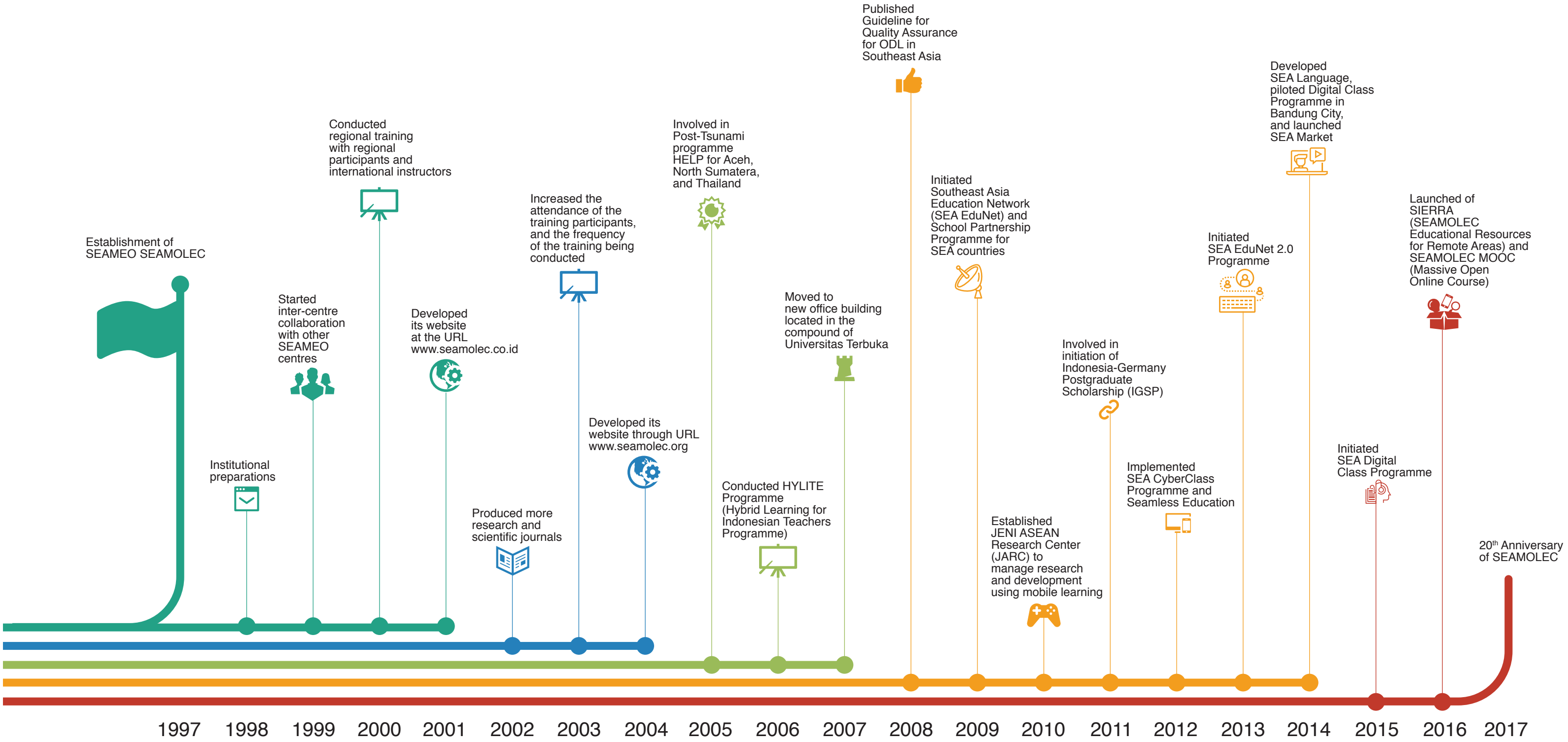
In its journey since 1997-2017, SEAMOLEC has been successful in developing its four-core programs in training, research, ICT development, and series of marketing and information dissemination activities. SEAMOLEC also has also carried out variety of special programs as well as improving its internal management, products and services.

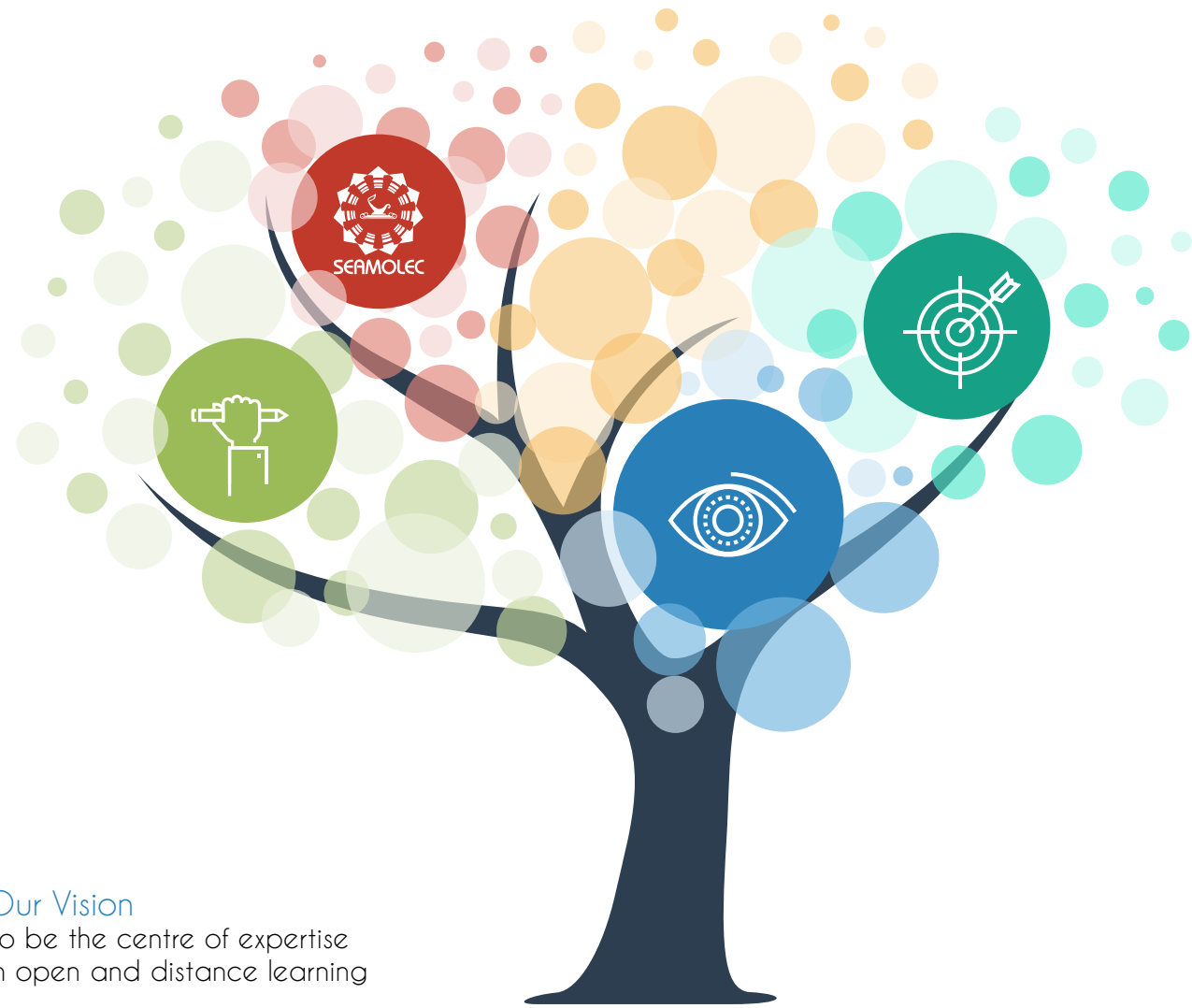


The Big Family of SEAMOLEC



Milestone





Our Vision

To be the centre of expertise
in open and distance learning

Our Mission

To assist SEAMEO Member Countries
in identifying educational problems
and finding alternative solutions for
sustainable human resource development
through the dissemination and
effective use of open and distance learning

Our Moto

Reaching the Unreachable,
Making the World into One World of Learning

SEAMOLEC
Services to the
Region

1997 - 2017



1997

Recognizing the needs to advance education, science, technology, and culture development through open and distance learning (ODL) and to foster cooperation among Southeast Asia Ministers of Education Organization (SEAMEO) Member Countries in the field of ODL, The SEAMEO Regional Open Learning Centre (SEAMOLEC) was established.

The decision to establish SEAMOLEC was taken by the SEAMEO Council at its 32nd Conference held in Manila on 27 February 1997. The Council agreed and approved the Centre's establishment to be hosted by the Department of Education and Culture (now the Ministry of Education and Culture (MOEC)) of the Republic of Indonesia. The office of the Centre was at the Information and Communication Technology (ICT) Center for Education (also known as PUSTEKKOM).

Dr. Arief Sukadi Sadiman, M.Sc. was the first Director of SEAMEO SEAMOLEC. As the leader of Indonesia delegation to Indonesia-Australia joint working group on Distance Education, he has been involved in the preparation of SEAMEO SEAMOLEC since 1995. In

1997 he was appointed to be the Interim Director, and in the following years he was appointed to be the Director of SEAMOLEC for three years duration.

In its first year of establishment, SEAMOLEC jointly conducted a survey on the Management of Distance Education and Training in Indonesia with Indonesian Digital Library Network (IDLN), Universitas Terbuka (UT), and PUSTEKKOM. The survey reveals that there were 14 institutions (12 public and 2 private) managing distance education and training in Indonesia offering various programmes. Some institutions address primary, secondary, and tertiary level target audience, and some others offer degree or certification programmes.

In July 1997 a 4-days workshop on developing content outlines for CD-ROM held at SEAMEO BIOTROP Bogor. This program was conducted in collaboration with PUSTEKKOM and Department of Education, Training, and Employment (DETE), South Australia to develop CD-ROM programmes for students of Open Junior Secondary Schools (OJSS).

SEAMOLEC together with IDLN and PUSTEKKOM organized a one-week training workshop on needs assessment under the sponsorship of UNDP/UNESCO in September 1997 with a consultant from University of Melbourne, Australia. Participants of the workshop were representatives from IDLN members, PUSTEKKOM, IKIP Jakarta, and SEAMOLEC.

A one-week workshop on English audio-script writing for OJSS students was held in cooperation with PUSTEKKOM and Department of Education and Children Services (DECS), South Australia. A prototype programme was developed and field-tested in November 1997 to 3 OJSS in West Java, Yogyakarta, and Bali.

On November 17 to 20, 1997 SEAMOLEC was sponsoring The 3rd International Symposium on ODL with Future Vision as its main theme. Participants came from Australia, USA, Norway, New Zealand, Japan, India, and some Asian countries. It was conducted in cooperation with several partners; IDLN, UNDP, UNESCO, and PUSTEKKOM. The event was appreciated by most participants.

We need technology in every classroom and in every student and teacher's hand, because it is the pen and paper of our time, and it is the lens through which we experience much of our world

– David Warlick

1998

SEAMOLEC programmes are expected to be responsive to national, regional and international needs, especially in the field of ODL. In the early stage of its establishment, SEAMOLEC programmes include institutional preparation such as conducted a study of the roles ODL play for Rural Development Program (RDP) in Greater Mekong Sub Region and Southeast Asian Countries. This study and the result of the study have been discussed in a workshop held in STOU, Thailand, in September 1998.

SEAMOLEC was also conducted several trainings to improve the quality of ODL by inviting qualified resource persons. A training on Planning ODL System was conducted on 5 to 11 January 1998 in collaboration with PUSTEKKOM, UT, and IDLN. The training participants were mostly IDLN members. The training was attended by 30 participants from different institutions such as from UT, PUSTEKKOM IDLN, SEAMOLEC, some Directorates of the Ministry of Education and Culture, IPB (the Bogor Institute of Agriculture), and the Center for Teachers Training by Correspondence as well as from private sectors.

Training workshop on Learning Resources Center and Management was conducted in the third week of January 1998 in collaboration with IDLN and PUSTEKKOM. The instructor was Mr. Keith Harry from ICDL United Kingdom. There were 23 participants from PUSTEKKOM UT, IDLN members, and various private sectors.

A Three-week Regional Workshop on Interactive CD-ROM Program Development jointly sponsored by SEAMOLEC PUSTEKKOM, IDLN and UNESCO was held at PUSTEKKOM from April 17 to May 8, 1998. The Workshop provided first hand experiences to produce pre-master CD-ROM program and was participated by 37 participants from various institutions such as SEAMOLEC, SEAMEO VOCTECH, SEAMEO SEARCA, IDLN, Bank of Indonesia, the Teachers' Training Center, some Senior Secondary Schools in Jakarta, and PUSTEKKOM. The instructor of the Workshop was Mr. Kym Schutz, multimedia consultant from Adelaide, South Australia. The output of the workshop was one Alpha-tested pre-master CD-ROM program with five topical aspects to deal, respectively: Chemistry, Physics English, Electronics, and Procedures of Export.





1999

During the FY 1999/2000, SEAMOLEC conducted three major activities in enhancing excellence and relevance of its programs, i.e. research and development, training, and symposium/seminars. In the field of research, the Center conducted two researches, namely, (1) the use of Internet for instructional, and (2) the open and distance learning providers in Indonesia.

The Center also had developed promotional video programs on community nutrition and environment, science and mathematics. It also started developing online training course. In term of training, the Center had conducted 4 in-country training i.e. planning an ODL system, self-learning materials development, student support services, and data management for rural development. The 5th International Symposium on “Improving Workforce Productivity” was a yearly program of the Center for sharing knowledge, expertise and experiences on ODL. While the 2nd Governing Board Meeting in Yogyakarta constituted a regionally specific working mechanism of SEAMEO Centers.

The Center had developed an Inter-Center collaborative program with SEAMEO SEARCA in training on Data Management for Rural Development, and SEAMEO VOCTECH in training on Management Information System. In collaboration with Camosun College, Canada, the Center had conducted training on Web-based Course Development using WebCT. The Center had also

participated in the SEAMEO-Ministry of Education (MOE) of Thailand Sister Program in Bangkok, Thailand.

SEAMOLEC had established linkages with the national, regional and international institutions, both public and private, in the field of open learning and distance education. Nationally, it established linkages with the Indonesian Distance Learning Network (IDLN), the Center for Information and Communication Technology (PUSTEKKOM), some universities and institutes, some directorates of the Ministry of the National Education, and some private sectors. Regional/ International linkages were established with the International Council for Open and Distance Education (ICDE), UNESCOPROAP, UNDP, the French embassy, World Bank, JICA, other SEAMEO Centers, and some educational institutions in Thailand, China, Philippines, and United Kingdom, Canada.

2000

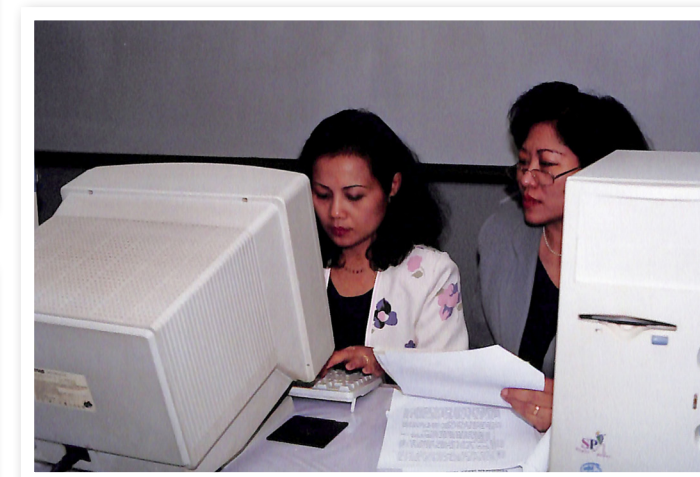
With the vision to be the Centre of expertise in ODL in Southeast Asia, SEAMOLEC continues in developing various activities and implementing programmes at various levels related to ODL. In this case, open learning is meant to be flexibility in learning across time and space for/by anybody through various means and technology, while distance learning is meant as educational solutions to geographical barrier in learning for/by anybody through various means and technology.

In FY 2000/2001, there were three research activities conducted, namely:

- Experimental Study on the Use of Internet for Remedial Learning in the Senior Secondary School;
- Study on the Learning Style and Strategy of Open Junior Secondary School Student in Indonesia;
- Study on the Implementation model of Open and Distance Training for Primary School Teacher's Competency Improvement.

In term of development, there were some activities conducted by SEAMOLEC, namely:

- Learning model and learning materials development;
- A pilot of Open Senior Secondary School at a preparatory stage (in cooperation with its host institution), and it was launched in the School Year of 2001/2002;
- The development of online courses using WebCT for Senior Secondary School students;
- Piloting an online course entitling "Independent Learning", as a follow-up activity after having attended training courses on web-based course development using WebCT. Participant for this online training are staff of SEAMOLEC and the host institution, PUSTEKKOM;
- Online course development on "Data Management for Rural Development". This training course consists of three modules which are basically originated from the learning materials prepared by SEAMEO SEARCA.



An in-house training program on "Planning the Open Distance Learning System" was conducted in Bogor, West Java, from 1 to 5 August 2000. It was attended by 20 participants from the Training Center of Health Personnel from the Ministry of Health of Indonesia.

Training on "Multimedia Script Development" was conducted in Bogor, 16 to 21 October 2000, attended by 18 participants from the implementation units of the host institution PUSTEKKOM. After participating in the training, the participants were expected to be able to write interactive multimedia scripts based on respective scientific discipline.

Regional training on "Web-based Course Development Using WebCT" was conducted in SEAMOLEC on 30 October to 3 November 2000, participated by 20 persons. They were from Brunei Darussalam (2 persons), SEAMEO INNOTECH, the Philippines (3 persons), and Indonesia (15 persons). The instructor

of the training was Mr. Dennis Garvelle, the expert from Fanshawe College, Canada. The objectives of the training were to enable participants to use the basic principles of WebCT to develop online courses and manage students learning at a distance.

An 11-day regional training on "The Development of Interactive Multimedia for CDROM and Online Access" was conducted from 6 to 17 November 2000. The resource person was Mr. Kym Schutz from TAFE, South Australia. The participants came from Ministry of Education of Brunei Darussalam (2 persons), Malaysia (1 person), Philippines (1 person), Ministry of Health of Indonesia (2 persons), Surabaya University (1 person), Tarumanegara University (1 person), Trisakti University (1 person), PUSTEKKOM (8 persons), and SEAMOLEC (4 persons). The aim of the program was to provide hands-on experiences in producing interactive multimedia learning modules in both CDROM and online format.

2001

Along with the growth of the Centre, SEAMOLEC developed custom designed programmes and new initiatives as responses to the changing needs and new challenges to increase responsiveness and relevance of its services to various clients in the region. Training was considered as its strength and flagship program at that moment. Various trainings in different topics were being conducted by the Centre.

Training on “Planning the Open and Distance Learning System” was conducted on 26 February to 2 March 2001 and participated by 18 persons from the implementation unit of PUSTEKKOM.

Training on “Web-based Course Development Using WebCT” was conducted on 23 to 27 April 2001 participated by 10 persons from various institutions, both private and public sectors, Staff of SEAMEO BIOTROP and SEAMEO TROPMED had also participated.

A regional training workshop on “the Development of Online Course Using WebCT” was carried out from 25 to 29 June 2001 under the support of SEAMEO Secretariat through SEAMEO EDF, a technical assistance from Camosun Collage, Canada, Under SEAMEO Marketing and Distance Education Project, and PUSTEKKOM. There were 18 participants representing SEAMEO Member countries, namely: Brunei Darussalam (SEAMEO VOCTECH), Philippines (SEAMEO INNOTECH), Malaysia (SEAMEO RECSAM), Singapore (SEAMEO RELC), Indonesia (representing universities, training Centers, and PUSTEKKOM), and SEAMEO Secretariat, Bangkok.

Documentation of each programmes and activities were prepared. To increase public access, information and publication of the Centre have been disseminated to SEAMOLEC partners. SEAMOLEC had maintained and developed its homepage that can be accessed through its website at the URL <http://www.seamolec.co.id>. The Centre continuously devises new initiatives, strategies, and mechanisms as the effects of the new development in ODL field.



2002

From July 2001 to June 2004 SEAMOLEC was led by The Late Prof. Dr. Soekartawi as the second Director. He was a very active writer who disseminates e-learning issues in Indonesia. He produced 619 scientific works in form of printed books, articles, scientific journals, modules and research reports. Research and development activities in SEAMOLEC during 2001-2004 showed a significant increase in the number of activities and topics. The researches were also conducted more on regional and international level.

The Centre started an experimental study on “the Use of Internet for Remedial Learning in the Senior Secondary School”. This is a 3-year study programme, and the main objective is to explore strengths of internet in assisting students to solve their academic problems. SEAMOLEC also developed the prototype of online course of Data Management for Rural Development and materials/courses for Open Senior High School.

To a more efficient management, the Centre has utilized the existence of electronic facilities available, especially audio conferencing. In the year under review, SEAMEO SEAMOLEC had already conducted 7 times audio conferencing, 6 of them related to the preparation for establishing virtual campus and 1 related to the SEAMEO IT project. The 6 audio conferences were made possible under the sponsorship of University of Oberta Catalunya (UOC) Spain, International Council for Open and Distance Education (ICDE) Norway, and SEAMEO Secretariat (SEAMES) Bangkok.

There were 2 seminars being conducted during the year;

- a. “Regional Seminar toward a More Effective Management of Open and Distance Learning System”; Jakarta on 27 February 2002. There were 68 participants from 5 SEAMEO member countries joined in this event.
- b. “International Seminar/Symposium on the Seventh International Symposium on Open and Distance Learning: Facing Global Competition”; Yogyakarta on 12 to 14 November 2002. About 205 participants from 23 countries participated in the seminar.



Some regional training was also conducted within the year. Self-Learning Material Development (SLMD) was one popular topic at that time. The SLMD training was conducted in 5 countries (Indonesia, Lao PDR, Myanmar, the Philippine, and Vietnam) in between January to March 2002 attended by 20 participants each.

“Utilization of Internet for Teaching and Training” was conducted in Jakarta on 25-26 February 2002, followed by 28 participants from 5 SEAMEO member countries (Indonesia, Lao PDR, Myanmar, Thailand, and Philippines). Another training called “E-Learning Material Development using Web-CT” was conducted on 17-26 June 2002 inviting 18 participants from 4 SEAMEO member countries (Indonesia, Myanmar, Lao PDR, and Thailand).

In keeping up with the development of ICT and in line with its vision, SEAMOLEC had its staffs trained for the use of ICT, particularly in the use of a course tool called WebCT. Within this year SEAMOLEC offered training/workshop in using WebCT to more universities and other education and training institutions for offering their online courses.

2003

Addressing the SEAMEO Council Conference in Chiang Mai, Thailand on 4-5 March 2002, it was suggested that all SEAMEO Centres to consider 3 issues; increasing the human resources program especially in the use of ICT, improving education with special focus on youth, and increasing cooperation with regional and international institutions. SEAMOLEC set up direction setting accordingly;

- Regional relevance (how to involve individuals and institutions in the region or beyond to SEAMOLEC activities)
- Resource/income generating (how to get additional financial support for enhancing the operation of the programmes)
- Linkages/networking (how to increase cooperation with national, regional, and international individuals/institutions in order to enlarge the programmes)
- Publication (how to increase and disseminate information about the programmes)
- Staff development (how to increase the capacity building of the staffs)

Within the year, SEAMOLEC has successfully increased the attendance of the training participants, and the frequency of the training being conducted. There were 10 topics of research being accomplished, 7 of them were conducted outside Indonesia.

024
025



Some interesting studies have been conducted by SEAMOLEC in 2003.

One of the big studies was Situational Analysis of the Study of IT and HIV/AIDS Education Prevention at Great Mekong Sub-Region (Cambodia, Lao PDR, Vietnam, Thailand and Yunan Province, China), a Collaborative Project with UNESCO (Thailand), SEAMEO Secretariat (Thailand), TROPMED (Thailand), INNOTECH (Philippines). Other studies were Study of the Management of Open and Distance Learning in Cambodia, in May-June 2003, Study of the Management of Open and Distance Learning in Myanmar, in May-June 2003, and Study of the Management of Open and Distance Learning in Vietnam, in May-June 2003.

Pre-Service Teacher Training and Teacher Professional development in the Use of ICT in the Teaching Mathematics and Science (Cases in Indonesia, Malaysia, Thailand and Vietnam) was also conducted by SEAMOLEC. It was a collaborative project with University of West Sydney Australia, SEAMEO Secretariat (Thailand), SEAMEO RECSAM and MOE (Malaysia), PPPG Mathematics (Indonesia), and Institute for Promoting of Teaching Science & Technology, IPST (Thailand).

2004

In 2004 SEAMOLEC acknowledged its eight years of being the SEAMEO Open Learning Centre providing services to Southeast Asian Countries in the area of ODL. From its beginning in 1997, SEAMOLEC has expanded its organization as well as its services. During the year in review, SEAMOLEC has made special efforts to answer the challenge of the constant educational changes, adapting to the new techniques and instructional technology, responding to the diverse and changing needs of its clients, while trying to seize opportunities to collaborate and promote its national as well as regional mission.

Five major activities in enhancing excellence and relevance of its programmes in 2004 conducted by SEAMOLEC were research and development, trainings/workshops, seminars, IT development, and consulting services. In terms of training, the Centre had several topics conducted regionally;

- a. Packaging Self-learning Material for e-Learning
- b. Self-learning Material Development
- c. Basic ICT for Teaching and Learning
- d. The Use of ICT in Teaching Math, Science, and English, and
- e. ICT for Professional Development of Academic Staff

SEAMOLEC had also participated in the development of database on HIV AIDS Preventive Education Website, which was an inter-Centre collaborative programme with SEAMEO VOCTECH (Brunei Darussalam), SEAMEO Tropmed (Thailand), and SEAMEO Innotech (Philippines).

To elicit social and public awareness on its operation, services, and products, the Centre had developed its website which can be accessed through URL <http://www.seamolec.org>. Not to mention the marketing and



promotional activities through publication of newsletter, leaflet, marketing kits, completion reports, and video profile.

During the year SEAMOLEC also played its role in providing assistances for universities/institutions on disseminating information about ODL. SEAMOLEC sent its staffs to conduct series of guest lecturing in various universities in Indonesia; State University of Malang, University of Muhammadiyah, Islamic University of Yogyakarta, Institute of Technology Bandung, University of Mataram, State University of Makassar, and Lambung Mangkurat University.

The great earthquake and Tsunami that occurred in December 26, 2004 in the land of many Asian countries, especially in Aceh and North Sumatera Provinces had been devastating. In addition to the losses in education sector, much of the local and provincial government infrastructure that supports service delivery has been damaged.

Responding to the crisis, SEAMOLEC involved in cooperating the development and compilation of proposals from 7 SEAMEO centers, i.e., SEAMEO TROPMED, SEAMEO RECSAM, SEAMEO RELC, SEAMOLEC, SEAMEO BIOTROP, SEAMEO SEARCA, AND SEAMEO VOCTECH. The proposals were developed based on each center's strength and excellence, to be submitted for funding to donor agencies, i.e., UNICEF, Government of Japan, the Government of Norway via ICDE, etc. SEAMOLEC followed up some of the possible activities funded by UNICEF and also private local agency in Indonesia.

2005

In the beginning of 2005 SEAMOLEC had its new Director, Prof. Dr. Paulina Pannen. As the successor of Prof. Soekartawi, Prof. Dr. Paulina Pannen is the only female Director SEAMOLEC has ever had. Under her leadership, SEAMOLEC sought to systematize and strengthen its core programs and its internal management. The Centre's development efforts and activities were focused on improving and enhancing its organization system while maintaining and improving the Centre's programmes.

In 2005, in the field of research and development, the Centre conducted 3 research projects:

- Implementation of ICT Policy in the Development of ICT Human Resources through Vocational Education System (in collaboration with Directorate of Vocational Education, MONE);
- Study on Students' Behavior in the Use of ICT in Learning Process;
- Research on the Development Models of Web-based Courses for Lecturers of Graduate Schools.

One of the special activities being conducted by SEAMOLEC in this year is HELP for Aceh, North Sumatera, and Thailand. SEAMEO efforts to provide assistance post Tsunami was coordinated by the appointed task force. SEAMOLEC has been leading the SEAMEO task force on HELP for Aceh, North Sumatera, and

Thailand coordinating the compilation of proposals of 30 programmes for educational rehabilitation from 13 SEAMEO Centres.

SEAMOLEC's proposal on Alternative Curriculum Development (ACD) Programme for Nangroe Aceh Darussalam (NAD) had been accepted for funding by the Deutsche Bank in 2005, which was implemented until 2008. This programme aimed to integrate local wisdom, issues in multicultural diversity, and water management and sanitation into the school curriculum at various levels.

The Centre also hosted the Teaching Clinics in its website. Teaching Clinics was a collaborative project among Directorate General of Higher Education (DGHE), provincial government, and UNDP Bappenas to provide a referral center for teachers in remote areas to be involved in continuous professional development, via the use of ICT network.

Technology is nothing. What's important is that you have a faith in people, that they're basically good and smart, and if you give them tools, they'll do wonderful things with them

– Steve Jobs



2006

Based on the self-evaluation of the Centre in the previous year, it was apparent that improvement of SEAMOLEC management system was highly needed to allow the Centre to be more flexible, transparent and accountable. SEAMOLEC organizational structure was reshaped into a more effective, efficient and most of all, functional organizational structure. There were 5 divisions at SEAMOLEC; IT Division, Training Division, Research and Development Division, PR and Marketing Division, and Administration and Finance Division. The staff members were distributed to fill in the functional structure, based on their individual capacity and expertise.



In addition, SEAMOLEC has been making effort to develop the capacity of its staffs by requiring all staff members to be expert of his/her own in special field of expertise at any level, also by providing them with the opportunity to have international/regional experience. Each of the staff members took turn to participate in international/regional events through assignment as trainers, supporting staff to international/regional events, assisting Director for reporting in regular SEAMEO meetings, and/or presenting papers on behalf of the Centre in international seminars/conferences.

In 2006 SEAMOLEC initiated a program called HYLITE (Hybrid Learning for Indonesian Teachers Programme). It was an in-service teachers training programme especially designed for primary school teachers in Indonesia, to improve their qualification from Diploma II to Sarjana (S1) level, conducted via ODL mode. It was one of the strategies taken by the Government of Indonesia (MONE) in providing access for quality education for all, especially for primary school teachers in all areas in Indonesia.

The collaboration between SEAMOLEC and other institutions was usually marked by the signing of Memorandum of Understanding (MoU) in initial stage and Memorandum of Agreement (MoA) at the implementation stage. The MoU as an umbrella covered the general programme conducted by between SEAMOLEC with partners;

- Collaborate in undertaking programmes, projects, and other related activities whenever wherever feasible opportunities present themselves;
- Exchange scientific materials, publications, and information; and
- Execute of separate agreements in writing for any particular undertaking jointly implemented, wherein sharing of responsibilities shall be specified.





2007

In 2007 SEAMOLEC has new office building located in the compound of Universitas Terbuka, which was constructed in 2006 in a piece of land given by the Government of Indonesia c.q., MONE through Universitas Terbuka. The construction of the building as well as procurement of its interior was supported fully by the Government of Indonesia c.q., MONE. SEAMOLEC's new building was inaugurated by H.E. Prof. Dr. Bambang Sudibyo, Minister of National Education and President of the SEAMEO Council on the 42nd SEAMEO Council Conference in 2007 in Denpasar, Bali.

Several interesting projects have developed and implemented by SEAMOLEC within this year. One of the big project namely Human Values-Based Water, Sanitation and Hygiene Education (HVWSHE) Programme. This programme was initiated to respond the 39th SEAMEO Council Conference's Declaration to motivates and inspires learners to change their behavior with a view to promote wise and sustainable use of water and sanitation.

This HVWSHE Programme was an inter-centre collaboration with SEAMEO INNOTECH, Philippines

and SEAMEO RECSAM, Malaysia. SEAMOLEC was involved in coordinating the development and compilation of the proposals, also following up some activities for developing instructional materials on HVWSHE for school teachers and students.

Review Meeting on the Development of Teaching-Learning Materials on Integrating HVWSHE in SEA Schools was conducted in Jakarta on January 31 to February 2, 2007. The meeting was attended by 13 participants of teachers and education experts, and produced 36 lesson plans on HVWSHE. The lesson plans were then published in a package under the coordination of SEAMEO SEAMOLEC with the title of SEAMEO Resource Package: Human Values-Based Water, Sanitation, and Hygiene Education.

SEAMOLEC was also actively contributing in the consultative group on Gender Mainstreaming under the coordination of Secretariat General of MONE to develop methodologies, tools, and programmes for gender mainstreaming. SEAMOLEC has also been actively promoting Open Educational Resources (OER) in Southeast Asia region for the purpose of sharing and exchanges of educational resources among Southeast Asian educators which at the final end will expectedly improve quality of education in the region.

A joint project on Teaching Clinic was conducted with Directorate of Human Resources of Higher Education and Universitas Terbuka to provide assistance for teachers in 6 rural areas in Indonesia, (1) Cibatug-Garut, (2) Pabelan-Magelang, (3) Muneng-Madiun, (4) Baturaja-Palembang, (5) Pawenang-Sukabumi, and (6) Gorontalo. It became a center for teachers to get clinical supervision for teaching-learning problems. The participants were firstly trained to operate computer and access internet in a telecenter. They were then able to post their teaching-learning problems they faced anytime through the website addressed www.klinikpembelajaran.com. Lecturers who acted as the supervisors responded to the problem that teachers posted. Fellow teachers from other telecenters were also able to respond to the problem.

Education is the most powerful
weapon which you can use to
change the world

– Nelson Mandela



2008

Starting from 2008 SEAMOLEC was under the leadership of Dr. Gatot Hari Priowirjanto for 2 consecutive periods. Many efforts were carried out during his leadership to redefine and reposition SEAMOLEC as the regional Centre for ODL. Each staff member is also responsible for actively networking and synergizing with new and established partners. Customer satisfaction also became the concern of the Centre as communication with alumni, partners and networks has been renewed through various occasions.

In 2008 the implementation of Alternative Curriculum Development (ACD) Programme for Nangroe Aceh Darussalam (NAD) which had been funded by the Deutsche Bank since 2005 took place. SEAMOLEC in cooperation with Faculty of Education of Syiah Kuala University, Aceh developed the web-based training programme of the Alternative Curriculum (AC) to train educators at higher teacher education institutions in developing AC for schools and facilitating the implementation of that curriculum in schools.

Within the year SEAMOLEC also developed detail standards for ODL system for Southeast Asian countries by publishing the Guideline for Quality Assurance for ODL in printed form. It was expected that the standards will help the cooperation among Southeast Asian countries related to the transborder education.

SEAMOLEC continued the effort of improving teachers' quality through HYLITE programme in assisting a consortium of 23 Indonesian teacher colleges.

Another ongoing project in this year was HVWSHE, with the objective of promoting human values-based water, sanitation, and hygiene education in Southeast Asian schools. SEAMOLEC was in charge in developing lesson plans resource package for integrated HVWSHE lesson. There were 4 thematic strands used in the lesson plan:

- Water, environmentally sustainable development
- Water, social equity and human dignity
- Water for health, sanitation and recreation, and
- Water in culture, traditions and religious practices.

In terms of research and development, in 2008 SEAMOLEC in cooperation with US-Indonesia Teacher Education Consortium (USINTEC) had conducted a study with the topic of "ICT Penetration in the Teacher Educations' Institutions".

Educating the mind without educating the heart is no education at all

– Aristotle

2009

Information and Communication Technology or ICT plays an important role to support SEAMOLEC's programme in the field of ODL. During 2008 SEAMOLEC carried out several programmes related to ICT development. One of them is Southeast Asia Education Network (SEA EduNet), a system to deliver data through multicast methods over satellite systems for ODL purpose. It can provide and deliver immense data in high speed without depending on the number of clients.

The name of SEA EduNet was selected because it reflects the ideals/goals of the programme that is to share educational materials among Southeast Asian countries. To implement this system, SEAMOLEC collaborated with PT Telekomunikasi Indonesia (Indonesian Telecommunication Company), especially on the use of Telkom 1 satellite that had coverage in Southeast Asian region.

SEAMOLEC also established a consortium for computer technicians called HIFORCE (Hybrid Learning for Indonesian Computer Technician) that had 69 polytechnics as ODL providers. The task of HIFORCE is to use SEA EduNet system for synchronizing the system in order to suit SEAMOLEC ODL standards and as a representative for quality assurance of ODL.

School partnership programme was initiated by SEAMOLEC in 2009. This programme is projected to build collaboration between schools in Indonesia and Southeast Asian countries. Through this programme, the schools had opportunity to have partner from other countries, as well as to meet and collaborate with each other. In its early establishment, the programme collaboration was conducted among schools from Indonesia, Philippines, Thailand, and Vietnam.

In accordance with the use of interactive learning, SEAMOLEC encouraged the emergence of new media innovation by developing educational applications based on mobile game through the programme called as Mobile Java Education Network Indonesia (MJENI). The programme was integrated with the pattern of ODL to support learning that can be done at anytime, anywhere by anyone. The reason of using games for learning is to motivate students to learn in a new fun way, interactive and attractive. MJENI had produced 213 games which able to educate students to learn Science, Math, English, and other subjects.



2010

Under the leadership of Dr. Gatot, the programmes and initiatives of SEAMOLEC were carried out based on the principles of collaboration and synergy in order to reach effectiveness, efficiency, and gives services to broader networks.

In 2010 SEAMOLEC established JENI ASEAN Research Center (JARC) to manage research and development using mobile learning. JARC deployed JENI Curriculum for South East Asian countries through ODL. JENI (Java Education Network Indonesia) is an integrated service for students and the community in Indonesia to gain knowledge, as well as to share and develop application based on Java programming language. More than 40 schools/universities in Indonesia and 10 universities/institutions in Southeast Asia were joining this programme. JARC has developed 10 tutorial books on how to make game apps based on Java programming and 300 MJENI apps.

In order to prepare students for National Final Examination, SEAMOLEC developed a programme called LUNAS (Latihan Ujian Nasional/The Exercise of National Examination) that was designed as a self-learning medium for senior and junior high school students to prepare and exercise for the national examination through ODL. The LUNAS portal can be accessed at <http://lunas.seamolec.org>. The subjects of LUNAS were Science, Math, English, and Bahasa Indonesia (Indonesian language), developed by selected teachers from several schools in Indonesia. More than 2,718 students and 63 teachers enrolled on this portal. The main objective of this programme is to improve the exam results of junior and senior high school graduates.

Aligned with the effort from Ministry of National Education to accelerate the distribution of information, eliminate imparity in education, and improve education quality in border areas, SEAMOLEC facilitated some schools with installment of SEA EduNet (satellite) system. SEA EduNet systems were installed to enable the schools in sharing educational information and learning resources without any barriers.

As one of its core functions is to provide training, SEAMOLEC conducted series of Training of ICT-based Learning for Teachers in 11 provinces in Indonesia and have trained 1.063 Math and Science teachers to design and manage their teaching materials based on ICT through Learning Management System (LMS-Moodle). The programme outputs were 221 LMS contents and were implemented in participants' school.

Another training conducted by the centre was SEAMOLEC Multi Studio (SMS). Multi studio means integrating all studios that were established to share and disseminate information to each other and wider community. It was an integrative service for teachers, lecturers, students, tutors, and public in Southeast Asian Countries, who need to learn, and share learning through streaming media. The output of the programme is to develop video streaming/recording and synergize with the SEA EduNet system. Within a year, SEAMOLEC have trained 11 schools, universities, and institutions in Indonesia to implement SMS.





2011

In order to reach its vision and mission, and also to continually provide good services to the region, SEAMOLEC is very keen on establishing a stronger networking system through partnerships and synergizing with other related parties. With good network and partnership the centre treasures to grow bigger in the future. Within 2011 SEAMOLEC grows its networking and partnership with many institutions.

In collaboration with French Ambassador to Indonesia (Ambassade de France en Indonésie), Jakarta, SEAMOLEC developed ODL training programme through Learning Management System called as FREAD (Français Enseignement à Distance) for French language learning, Diplôme d'Etudes en Langue Française (DELFI) level A2 and B1 of the CEFRL (Common European Framework of Reference for Languages). The main objective of this programme is to improve the quality of French language teaching in Indonesian high schools

FREAD was able to share contents for the French school network in Indonesia (CCF- Centre Culturel Français Jakarta, Bandung, Yogyakarta and Surabaya, AF-Alliance Française Denpasar, Medan, Bandung, Semarang and Balikpapan, School Lycée Français International Jakarta, Ecole Française International Bali, and Ecole Française International Balikpapan, and SEAMOLEC partners.

SEAMOLEC also assisted MoNE to contrive a programme that provides Doctoral Degree Scholarships allocated from

the National Budget of MoNE through a programme called Indonesia-Germany Postgraduate Scholarship (IGSP). This programme was implemented as part of the Debt Swap programme of Indonesia-Germany, a debt reduction programme in education sectors that is approved by the Republic of Indonesia and the Federal Republic of Germany since 2002.

The Directorate of Higher Education (DIKTI) formed a debt swap team that is responsible for initiating and establishing of a consortium that included some universities in Indonesia and Germany to run the collaborative Doctoral Degree programme. This programme is expected to reduce the total debt of Indonesia as much as 3 times of the total expenses to produce 5.000 Indonesians Doctoral Degree for the period of 10 years.

SEAMOLEC took part by facilitating MoNE in developing the proposal, negotiating with Government of Germany through the Germany Embassy in Jakarta, initiating the recruitment and funding procedures, socializing the programme to universities in Indonesia and Germany, and receiving application from prospective Indonesian awardees.

With the Ministry of Religious Affairs of the Republic of Indonesia, SEAMOLEC also conducted a collaboration programme on ICT training for Islamic religion teachers in elementary school, junior high school, senior and vocational high school. The training objectives were to enhance the

quality of teaching and learning materials, to enhance teachers' competency by integrating ICT in teaching and learning process. The number of teachers who joined the programme was 598 teachers in 20 Indonesian provinces.

In order to create new partnership and maintain the existing network, SEAMOLEC Director visited several universities in 5 Southeast Asian countries in 2011; Vietnam, Cambodia, Lao PDR, Thailand, and Brunei Darussalam. The main objective of the visit was to explore the possibility of SEAMLESS programme to be implemented in Southeast Asia region. He visited Hanoi Open University (HOU) in Vietnam, National Polytechnic Institute of Cambodia (NPIC) and Royal University of Phnom Penh (RUPP) in Cambodia, National University of Lao (NUOL) in Lao PDR, Asian Institute of Technology (AIT) in Thailand, University of Brunei Darussalam (UBD) in Brunei Darussalam. These universities in 5 countries were interested to join the SEAMLESS programme as well as to increase the student mobility in the region.

In relation to student mobility, SEAMOLEC design Southeast Asian Student Mobility Project. The project was initiated on the 32nd SEAMEO High Official Meeting to accelerate the attainment of Education For All by promoting student mobility in the region.



Education, especially higher education, has always been the backbone of economic and social development. SEAMOLEC took part on the programme by providing scholarship to 27 Cambodian students and 10 Laotian students to study in Indonesian universities i.e. Electronic Engineering Polytechnic Institute of Surabaya, State University of Gorontalo, and University of Padjajaran, sponsored by Bureau of Planning and International Cooperation, MoNE.

SEAMOLEC in collaboration with universities and polytechnics in Indonesia also provided scholarships for students to improve the quality of human resources, increase participation rate in higher education, as well as reduce unemployed. It conducted in 7 universities/polytechnics, such as Electronics Engineering Polytechnic Institute of Surabaya (EEPIS/PENS ITS), State University of Malang (UM), Bandung Institute of Technology (ITB), University of Padjajaran (UNPAD), Sanata Dharma University (USD), Sepuluh Nopember Institute of Technology (ITS), and AMIK Wahana Mandiri for Diploma-3, Diploma-4, and Master's Degree.



2012

In 2012 SEAMOLEC implemented the SEA CyberClass programme, a semi-online exercise examination to improve the student's score as a preparation for national examination. The programme was enrolled by 95 Senior High School and 100 Vocational High School in 20 provinces across Indonesia. In Southeast Asia, SEAMOLEC has carried out the programme in several schools in Cambodia, Thailand, and Philippines.

As the embodiment of SEAMLESS programme, SEAMOLEC carried out a programme called Continuing Vocational Education (known as PVB Programme). A programme that was designed for one-year course for high school graduates to be on par with Diploma-1 (D1) Degree or one-year course at university. The GoI always seeks to prepare qualified Indonesian human resources in facing the challenges of globalization. PVB was offered by Indonesian polytechnic/ university as main campus in collaboration with Vocational High School (SMK) as sub-campus. Polytechnic, university, and SMK were also synergizing with various parties (business/industry/ local government) in relevant areas to offer an appropriate education based on local needs. SEAMOLEC supported the ODL systems and facilitated the Training of Trainers (ToT) on management of distance education for teachers and lecturers.

PVB was implemented by 40 polytechnics/universities, 262 SMKs, 5 PPPPTKs, and 3 Industries in 24 Provinces of Indonesia. PPPPTK is The Centre for the Development and

Empowerment of Educators and Educational Personnel. The total number of student was 3.015, and expected to be skilled workers or innovative entrepreneurs.

SEAMOLEC developed the e-Learning system (LMS) for 40 polytechnics/universities to conduct the teaching and learning process as well as provided grants of SEAMOLEC Multi Studio (SMS) equipment to 20 polytechnic/universities. ToT was conducted in 30 polytechnics/universities, produced more than 81 video-based learning and 20 contents for LMS.

Not only that, SEAMOLEC also conducted The Fast Track Programme which was an acceleration degree programme which allows students to complete their master studies faster than the regular course, where the study period is planned only in 5 years; 4 years to complete the S1 (Bachelor's Degree) and 1 year after is to complete the S2 (Master's Degree). The objective is to accelerate and support the development of Indonesian human resources and to enhance the competitiveness of the nation in every human aspect. It was also conducted to increase the master degree candidates that will support the doctorate programme, such as IGSP: Debt Swap Programme Indonesia- Germany.

This programme was organized by 6 universities, such as Bandung Institute of Technology (ITB), Sepuluh November Institute of Technology (ITS), University of Gadjah Mada (UGM), University of Diponegoro (UNDIP), University of Indonesia (UI), and University of Brawijaya (UNIBRAW).

Fast track students were required to perform Intellectual Social Responsibility (ISR) by doing internship at school during their study and conduct an online seminar twice a year. The online seminar is to encourage students to conduct scientific activities and serve as a medium for sharing information, new ideas or concepts. SEAMOLEC arranged and provided the online seminar for these 6 universities.

This year SEAMOLEC continued the student mobility programme by providing scholarship to 27 Cambodian students and 10 Laotian students to study in Indonesian universities i.e. Electronic Engineering Polytechnic Institute of Surabaya, State University of Gorontalo, University of Gadjah Mada, and University of Padjajaran, sponsored by Bureau of Planning and International Cooperation, MoNE. SEAMOLEC has sent 28 more students from Cambodia to study at State Polytechnic of Jakarta and STMIK IKMI Cirebon.



The school partnership programme continued to be conducted in 2012. There were 95 teachers and students from Thailand came and visited their counterpart schools in Indonesia whereas 80 teachers and students of SMK in Indonesia repay visited to Thailand.

SEAMOLEC also facilitated the partnership programme for Indonesian polytechnic with German polytechnic. There were 6 Indonesian polytechnics (Kupang State Polytechnic for Agriculture, State Polytechnic of Kupang, UGM Vocational School, State Polytechnic of Bandung, State Polytechnic of Jakarta, and Astra Manufacturing Polytechnic) partnered with 6 Germany polytechnics (Goettingen University, FH Bingen, FH Fuertwangen, FH Phorzheim, FH Karlsruhe, and FH Nuremberg) that joined the programme.

In 2012 SEAMOLEC also received the USAID Grant through ASEAN-US Technical Assistance and Training Facility Phase



II Project for ICT Online Training in Southeast Asia namely "Integrating ICT into Teaching and Learning for Teachers and Lectures in Cambodia, Indonesia, Lao PDR, Thailand, and Vietnam". \

The roles and responsibilities of SEAMOLEC in this project are to train lecturers, teacher, IT technician, to integrate ICT into teaching and learning by developing the curriculum, syllabus and IT-based learning materials (such as developing instructional videos using open source softwares and designing learning materials in LMS); to set up network among educational education, polytechnics/ vocational/technical training institutes, and high schools in Cambodia, Indonesia, Lao PDR, Thailand, and Vietnam; to gather samples of best practices from selected best teachers and lecturers; to develop website as an exchange and sharing media among various countries; and to establish web link with ASEAN universities and polytechnics for participants to improve the quality of education;

The online training was enrolled by 132 participants from 5 countries that were facilitated by 7 online tutors from SEAMOLEC. This project was run well and successfully until the end.

Education is the passport to the future, for tomorrow belongs to those who prepare for it today

– Malcolm X

2013

SEAMEO initiated SEAMEO College programme, which is stated in SEAMEO’s Ten-Years Strategic Plan, 2011-2020. SEAMOLEC as one of SEAMEO Centres has responsibility to train and advice centres in the use of online tools for work collaboration, meetings, webinars, and conferences among each other; and assist centres in planning and procurement of IT technologies to upgrade their capacities for online work collaboration. In order to embarked the programme, SEAMOLEC conducted The Readiness of SEAMEO College Workshop in 18 SEAMEO Centres, SEAMEO Secretariat, and 54 Indonesian Universities,

As the follow up programme of Online Training of USAID Grant Programme, SEAMOLEC conducted face-to-face workshop in Integrating ICT into Teaching and Learning for Teachers and Lecturers in Cambodia, Indonesia, Lao PDR, Thailand, and Vietnam. The face-to-face workshops were intended as the reinforcement of the online programme. The workshop was held in IIC University of Cambodia, Cambodia; SMKN 4 Malang, Indonesia; Dongkhamxang Teacher Training College, Lao PDR; Sainampeung School, Thailand; and SEAMEO RETRAC, Vietnam with 125 participants who enrolled the workshops.

Given the promises of e-learning, many higher education institutions in the region have decided to embark on significant e-learning initiatives. As the SEAMEO Centre for open and distance learning (ODL) in the Southeast Asian region, SEAMOLEC has been facilitating many of these initiatives, which are highly diverse, ranging from simple ICT-literacy training to actually designing and developing web-based course. SEAMOLEC developed 24 online courses listed in SEAMOLEC ODL Course website. To enrich the contents of online courses, SEAMOLEC developed digital book for each course and invited its partners to join the course.

In order to contribute in the success of ASEAN Community 2015, SEAMOLEC formed a learning community to provide a forum for sharing cultures and value, ideals, information and education through inter-related classrooms among educational institutions in Southeast Asia. Thus, SEAMOLEC initiated and carried out the SEA EduNet 2.0 and SEA Twin programme.

The SEA EduNet 2.0 & SEA Twin platform plays an important role that is able to integrate 4 aspects in ICT teaching and learning: delivery system, content development, communication and assessments. These 4 aspects are prepared in one integrated teaching and learning platform, such as:

- a. Edmodo as a “delivery system” platform that is web and social networking based.
- b. SEAMOLEC Multi Studio (SMS) to develop teaching material for video and streaming.
- c. Webinar Technology (BigBlueButton) as a medium of communication through internet that can manage online conference
- d. SEA CyberClass (SCC) as a semi on-line examination that enables to carry out the paperless exams try-out as much as possible

The school partnership programme of SEAMOLEC continued in 2013 by adding ASEAN+1 (China) to the list of partnership country. SEAMOLEC is eager to establish partnership with China as the biggest country in Asia in order to improve the quality education in Southeast Asia. SEAMOLEC built cooperation with Indonesian Embassy for People’s Republic of China, Education Attaché for the Republic of China, and ASEAN China Center (ACC). SEAMOLEC has facilitated many partnership programmes between Indonesia educational institution and China educational institution. Another partnership was also developed with several educational institutions in Cambodia and Philippines within this year.

Regarding the IGSP scholarship programme with Germany, SEAMOLEC still played its role in this programme by socializing it to universities in Indonesia and Germany, receiving application from future scholars from Indonesia, conducting the selection process and pre-departure programme. Master graduates who are permanent/prospective lecturers from state and private Universities, or recommended by Indonesian universities to become a lecturer, and students from Fast Track programme, are eligible for this scholarship.



There are 42 students who enrolled IGSP this year. The scholar students are mandated to create relationship between institutions in Germany and Indonesia, and support the partnership activities (visit, research partnership, lecturing materials exchange, etc.). This collaboration should be sustained after finishing their study and going back to Indonesia.

In 2013 The Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), Ministry of Education and Culture (MoEC) of Indonesia, Ministry of Science & Technology Myanmar, and SEAMOLEC conducted multi collaborations programme in vocational education, and expanded opportunities for Myanmar students to continue their study in Indonesia by increasing the scholarships allocation funded by MoEC Indonesia.

Activities began with a fact finding mission by MoEC/DTVE, SEAMOLEC and GIZ which was held on February 20-25, 2012, followed by training/workshop on android mobile application development & web conference through BigBlueButton at Myanmar Computer Federation and SEAMEO CHAT, Yangon, Myanmar on September 10-14, 2012. The 2nd training/workshop was held at Government Technological Institute, Pyin Oo Lwin City, Myanmar, with the workshop titled on “E-Learning System Development” on December 17, 2012 to January 17, 2013 using Edmodo as virtual class, Flipsnack/Flipbook as digital book creator, Google Drives and Docs as web storage service and open office application, web conference through BigBlueButton, and CourseLab interactive learning modules. 2 teachers from SMKN 7 Semarang Indonesia also facilitated the training, especially on the fundamental of electronic system. There were 25 participants from 10 Technological Universities, Myanmar who attended the training.



2014

Recognizing that language is the most important strategy toward the integration of ASEAN Community 2015, where ASEAN students should realize the importance of mastering other foreign language for communication, SEAMOLEC initiated to develop Southeast Asian Language (SEA Language) 1.0 programme to facilitate a new model of language learning to support the ASEAN Community 2015. SEA Language 1.0 is developed using the App Inventor based-on Android (open source) that can be accessed through mobile devices.

The development of SEA Language 1.0 consist of two main activities:

- 1. Two Minutes Talk per Day
Students deliver one topic of conversation in English language and other language in 2 minutes. The conversation will be recorded into a video-based and uploaded into YouTube.
- 2. Two Android Apps per Month
A team consists of 2 students create 2 android application for language learning in a month by using MIT App Inventor.

In early 2014, SEAMOLEC conducted SEA Language 1.0 workshop in collaboration with Bureau of Planning and International Cooperation (BPKLN), MoEC Indonesia to develop 19 language learning apps in English, Chinese, Thai, Khmer, Japanese, etc, with 30 participants from Afghanistan, Bulgaria, Cambodia, China, Ethiopia, Iran, Italia, Japan, Lao, Madagascar, Pakistan, Slovakia, Sudan,

Thailand, Timor Leste, Uzbekistan, and Vietnam. The apps were uploaded into Google Play Store and SEA Market (<http://seamarket.seamolec.org/>)

SEAMOLEC also developed Digital Simulation programme in 2014. Digital Simulation Programme was one of the efforts to improve the competencies of students, teachers, and communities to the latest ICT knowledge. They are expected to learn and apply the ICT tools that can be used to develop creativity, express themselves, and collaborate. SEAMOLEC initiated the programme for vocational high schools, which was then formed into ICT subject in Indonesian National Curriculum of 2013. Digital Simulation consisted of 4 competencies such as:

- a. Managing digital information
- b. Participating in cyber class
- c. Creating visualization of concept
- d. Digitalizing contents into digital books/documents

Another big project conducted by SEAMOLEC in 2014 was the Digital School programme, a learning model to facilitate 21st century learners. The Digital School programme was segmented into eSchool (interactive for school), eTraining (Training for teacher and students), and eResources (develop digital learning material for teaching and learning).

eSchool

School shall ensure its infrastructures to be able to support digital school model, such as:

- 1. Internet Access
Internet access is required to teaching and learning resources from teacher to student, communication from school to other school and vice versa.
- 2. Digital Library (eLibrary)
Digital library provides learning materials in digital format, such as eBook, video/audio/multimedia, and other digital applications that support teaching and learning. Students can personalize their own learning materials.
- 3. Computer Lab
Computer Lab is required to support the teaching and learning.
- 4. Computer Kiosk
A stand-alone computer that is located in a strategic place. It can be accessed by anyone who needs to access a computer or Internet.

eTraining

eTraining was addressed for teachers and students to prepare the implementation of digital school. eTraining consisted of preparation to develop digital learning material (eBook, Mobile Application and Animation) and Social Learning (Edmodo).

eResources

eResources was activities for teachers and students to create and develop digital learning material, such as mobile application, animation, and video learning. Students created mobile application by using MIT AppInventor and animation by using Blender software. This eResources will be uploaded into Google Play, YouTube or virtual class using Facebook or Edmodo.

Within 2014, the number of Indonesian vocational high schools was 11.478 schools. The Directorate of Technical and Vocational Education, the MoEC Indonesia have mapped around 6.000 schools required assistance to keep pace with the growth of vocational high school, accelerate efforts in promoting, scholarships, revitalize facilities and infrastructure, expand industry partnerships, etc. In this case, for about 1,650 schools are targeted as Referral Vocational High School that have min. 3-4 vocational high school alliances that will guide those 6,000 schools.

Referral vocational high schools (SMK Rujukan) were vocational high schools that have superior performance, great access, effective in institution management and able to assist other alliance vocational high schools in the implementation of the quality learning process. The roles of SEAMOLEC for SMK Rujukan were to provide preparation training/workshop for SMK Rujukan as a place for certifications (digital simulation) and a place for industry partner testing center, partnering 3-5 SMK Rujukan with other schools/ educational institutions at Southeast Asia, China, Korea, Japan, and 8 SEAMEO associate member countries (Germany, Netherlands, Spain, England, New Zealand, Australia, Canada, France), and to provide digital library for SMK Rujukan in Southeast Asia.

At the end of 2014 SEAMOLEC in cooperation with Goethe Institut Jakarta initiated a programme called Mobile Application Goethe Institute-SEAMOLEC (MAGIS) Camp to promote creativity, innovation, and anywhere everywhere learning for students. It was a creative workshop for high schools students to develop their own mobile application to learn German. Goethe-Institut responsables for the contents and the language, meanwhile SEAMOLEC for the technical skills to develop mobile application. The workshop was held in 6 days, which is the participants required to develop at least 70% of the applications. They work in a team consist of content developer, designer, and programmer. In 2014, this workshop was held twice in Indonesia and Thailand.



2015

Looking at the educational challenges in Indonesia, SEAMOLEC started to develop Digital Class Programme in 2015 as an ICT-based solution for Education in Indonesia. The programme is in line with the SEAMEO priority area no. 7 on Adopting a 21st Century Curriculum, by emphasizing on Information and Communication Technology (ICT) Literacy. SEAMOLEC trained teachers and students to go digital and utilizing ICT in teaching and learning activities. By Go digital, students and teachers have to be more familiar with: e book, tablet, smartphones, virtual class, online learning, virtual library/cloud storage replacing books, blackboards, face to face learning, and library.

The early-stage of Digital Class implementation in Indonesia is located in Bandung City, West Java. Bandung as the pilot project city has responded to the programme enthusiastically. Participants from schools in Bandung were actively communicating and coordinating all activities using groups in chat application in their smart phones. Bandung had an active digital class task-force team and exam questions up-loaders which consist of team of teachers from higher secondary schools, vocational schools, lower secondary schools, and elementary schools.

There were 26.769 students from 178 elementary schools in Bandung and 44 elementary schools outside Bandung from 11 Provinces in Indonesia had been involved in online test of Digital class programme.

In 2015 there were 2 main titles of SEAMOLEC Training; SEA Edunet 2.0 training, and Digital Simulation training. The SEA Edunet 2.0 training consists of 4 competences

virtual class management, lecturing video development, digital book multimedia-based development, and visual animation presentation, while the Digital Simulation training was designed for regular training and Master trainer certification. SEAMOLEC also provides training based on client needs and collaborative programmes both nationally and internationally.

In 2015 SEAMOLEC was using WebEx for web conferencing system. The WebEx is utilized for many programmes, such as Digital Classroom Piloting Project in Bandung City, Online training of Digital Simulation at 25 Quality Assurance Institute of Education (Lembaga Penjamin Mutu Pendidikan) in Indonesia, Health seminars by Philippines and STIKES Budi Luhur with 5 Health Vocational School in Indonesia, and also Seminars of Writing Scientific Journal by Lembaga Ilmu Pengetahuan Indonesia with 15 location in Indonesia. WebEx is a web conferences application developed by Cisco that allows users to collaborate through images, video, and sound anywhere anytime more easily.

In terms of increasing access of SEAMOLEC programmes to its market, the centre used advertorial to promote its activities through national media (e.g. newspaper and online news). SEAMOLEC published advertorials especially for the new initiated programmes, such as SEA Digital class inauguration by SEAMEO Council President, and a collaborative seminar and exhibition conducted by 6 SEAMEO Centres in Indonesia.

SEAMOLEC also took part in Promoting Technical and Vocational Education and Training by actively involved in

a programme called “Trilateral Cooperation Indonesia-Myanmar-Germany” which was designed to improve capacity building of Myanmar teachers and instructors. The Republic of Union of Myanmar was experiencing an unprecedented tourism growth. The rapid expansion of tourist arrival, eased regulations such as visa-on arrival privileges, development of tourism destinations and the growing demand for domestic and international travel needs to be met with increasing quality in services and a workforce ready to welcome and cater to international and national tourists.

The Trilateral Cooperation between Myanmar, Indonesia and Germany supports Myanmar in leveraging the human resource quality by enhancing teaching and workshops through a workshop for trainers in selected priority sectors. SEAMOLEC; GIZ and Myanmar co-conducted workshop for Myanmar teachers from Ministry of Hotel and Tourism on 11-22 May 2015.

An interesting activity called “Angklung Digital Festival” was conducted within the year. It was a follow-up of IT Creative Competition by using “APP Inventor” application, initiated by SEAMOLEC with Bandung City Government and Bandung Education Department. The competition has produced many best Android applications that mainly focused on the Sundanese musical instrument, Angklung. Students from any level playing beautiful traditional musical instrument in group, using application in their smartphone. Their performance was recorded and uploaded into Youtube and they were scored based on the quality of music and number of video viewer in Youtube.

Also in 2015, SEAMOLEC in collaboration with SEAMEO Centres develop SEA Online Course Development (SOCD) to expand the network of cooperation among SEAMEO Regional Centres, SEAMEO Secretariat and other Centre of education institutions

in Southeast Asia. This workshop was conducted with main objective to prepare online training of the flagship programme of each Centre. The workshop was held on 27-29 April 2015 at Hotel Park, Indonesia. The outputs of this workshop were 13 courses that was going to be offered to the potential trainees/participants in Southeast Asia. The courses will be delivered using Edmodo as the platform to conduct virtual teaching and learning, with additional online method teaching strategies by using synchronous format (video, module, discussion, etc.) and asynchronous format (active learning, webconferencing, etc.).

Several inter centre collaboration programmes were conducted by SEAMOLEC and its sister centres.

- Workshop on Digital Book Multimedia-based Development with BIOTROP;
- Expertise Collaboration on ISO Programme (ISO 9001:2008) with VOCTECH;
- The signing of Memorandum of Understanding (MoU) among SEAMOLEC, SEAMEO VOCTECH, SEAMEO BIOTROP, VEDCA Cianjur, Wasan Vocational School of Brunei Darussalam; and
- Workshop on ICT and Pedagogical Competencies of Meaningful & Creative Learning Development with QITEP in Language and QITEP in Math-QITEP in Science
- Initiation for Children with Special Needs with SEN
- Applying Inquiry-based on Science Subjects Through Information and Communication Technology with QITEP in Science, and RETRAC

2016

In April 2016 on the event of 2nd Strategic Dialogue for Education Ministers in Bandung, West Java, SEAMOLEC officially launched SEAMOLEC Educational Resources for Remote Areas (SIERRA) device, a product that allow students to learn by accessing learning materials in form of video, audio, and 60,000 contents compiled in an offline site, by using their smartphones or Personal Computer (PC) without using internet connection.

SIERRA comes in as a simple, handy, and easy to carry gadget with the size no larger than a credit card. Not only to assist students in self-learning process, SIERRA allows students to follow online test exercise or computer-based test only with the use of their smartphones. Schools will no longer need to provide PC or computer lab and internet connection. Besides used as local server, SIERRA can also be accessed by up to 30 users. This is why it is claimed as innovation for a better education, as it can be a good solution for areas with limited infrastructure facilities and internet connectivity.

SIERRA has been used by SMAN 2 Padalarang which act as reference school in Open High School (SMA Terbuka) Padalarang. Through SIERRA, teachers could develop digital contents to be stored in the local server of SIERRA when they are connected with internet, which later can be saved in the server of learning venue or Tempat Kegiatan Belajar (TKB). Then these contents are ready to be accessed by students. SIERRA installation in Padalarang is highly recommended based on its highlands topography. During SIERRA trials, recorded anumber of 126 students were in Cihampelas learning venue/TKB.

Within the same event of SIERRA launching, SEAMOLEC also launched its Massive Open Online Course or widely

known as MOOC, a platform that can be used to learn Southeast Asian Language and other special short courses for free. This platform is opened to any range of users and also created to direct users in taking professional certification. It will also provide current Open Educational Resources (OER) from all subjects. People may start browsing the courses by accessing mooc.seamolec.org. This method would be very useful to develop the habit of online learning in a fun process.

Starting mid 2016 SEAMOLEC conducts training in online mode specially designed for Indonesian teachers using SEAMOLEC MOOC system which enables thousand of teachers to take part in 1 same course. There were 10.250 teachers have been accommodated in this online training system since July to December 2016. Topics of the training are related to habituation of ICT in teaching and learning, among others: digital book, digital class, animation drawing, and 3-D Animation.

Different from other MOOC, SEAMOLEC's MOOC provides tutor facility who communicate with participants through video conference and mobile chat application. Major problem of this programme is that there are many participants who do not have access to good internet connection, therefore they were unable to finish their tasks. Commitment from participants to finish the course and all tasks given by tutor is also an important role in the success of this programme.

At the end of 2016 SEAMOLEC in cooperation with Ooredoo Indosat gives free internet package facility tp participants of SEAMOLEC online training. In 2017 online training will be continued by presenting new topics relaten to the integration of ICT into teaching and learning.



2017

In 2017 SEAMOLEC is celebrating its 20 years of service to the Southeast Asia region. Over the years, various activities and programmes have been launched and implemented for the benefit of educational sector in 11 SEAMEO member countries.

Looking at its success in Indonesia, SEAMOLEC is going to publish its online training to other countries within this year. Currently, the centre is preparing all materials to be converted in English which will later be offered to teachers in Southeast Asia.

Quoting the late Steve Jobs, “it is good to always try to be in the intersection of technology and liberal arts. To be able to get the best of both; to make an advanced tools from the technology perspective but also have them be intuitive, easy to use, fun to use, so that they really fit the users. Users don’t have to come to them, they come to the users.”

And that is what we in SEAMOLEC want to happen with this programme and what we keep continue developing in order to help the SEAMEO Member Countries to find alternative solutions in education through the effective use of open and distance learning. In the future, SEAMOLEC will continue to initiate more activities and innovation in its effort to improve the quality of education, as stated in its motto “Reaching The Unreachable, Making The World Into One World of Learning”.



Previous Directors



1997-2001

Dr. Arief Sukadi Sadiman, M.Sc.

Dr. Arief Sukadi Sadiman, M.Sc. was the first Director of SEAMEO SEAMOLEC. He was born in Kediri, East Java, Indonesia, on 20 March 1946. He got his Master Degree in Educational Technology at Syracuse University, USA in 1979, and his Ph.D in the same area at the Institute of Teacher Training, Jakarta in 1984 under sandwich programme with Indiana University, Bloomington, Indiana, USA

As the leader of Indonesia delegation to Indonesia-Australia joint working group on Distance Education, he has been involved in the preparation of SEAMEO SEAMOLEC since 1995. In 1997 he was appointed to be the Interim Director, and three years after that he was appointed to be the Director of SEAMEO SEAMOLEC.

He was also appointed as the Director of SEAMEO Secretariat in June 2001. Under his directorship SEAMOLEC has conducted a study about the roles of Open and Distance Learning (ODL) play for Rural Development Program in Greater Mekong Sub Region and Southeast Asian Countries. The first inter-centre collaborative program and regional training workshop with regional participants were also conducted during his directorship.



2001-2004

Prof. Dr. Soekartawi

The Late Prof. Dr. Soekartawi was born in Sidoarjo, East Java, Indonesia, on 1 August 1947. He was the second Director of SEAMOLEC who obtained his Master Degree from Bogor Agricultural Institute, Bogor, Indonesia in 1977 and his Ph.D from University of New England Australia in 1989. He was a very active writer who disseminate e-learning issues in Indonesia. He produced 619 scientific works in form of printed books, articles, scientific journals, modules and research reports.

Research and development activities in SEAMOLEC during 2001-2004 showed a significant increase in the number of activities and topics. The researches were also conducted more on regional and international level.

One of the project under his directorship was the involvement of SEAMOLEC in the Situational Analysis of the Study of IT and HIV/AIDS Education Prevention at Great Mekong Sub-Region (Cambodia, Lao PDR, Vietnam, Thailand, and Yunnan Province-China). SEAMOLEC was also actively contributed in Connecting Asian-Europe e-Learning (CAE e-LEARN) project in 2002-2004, and in Fact Finding Study on the Establishment of Open and Distance Learning Institution/Components in Lao PDR in 2002-2003.



2004-2007

Prof. Dr. Paulina Pannen

As the successor of Prof. Soekartawi, Prof. Dr. Paulina Pannen is the only female Director SEAMOLEC has ever had. She finished her Master Degree in Library Science and her Doctoral Degree in Education Technology from School of Information Studies of Syracuse University, USA.

Under the leadership of Prof. Paulina, SEAMOLEC sought to systematize and strengthen its core programs and its internal management. The Centre's development efforts and activities were focused on improving and enhancing its organization system while maintaining and improving the Centre's programmes. In 2006/2007 she initiated the idea of drafting the strategic plan for sustainable growth of the Centre as well as to increase the responsiveness and relevance of the Centre's services to various clients in the region.

One of her remarkable programs during her time in SEAMOLEC was a project funded by Deutsche Bank for designing and implementing Alternative Curriculum Development in Nangroe Aceh Darussalam (NAD) province. The project was initiated as a response to emergency and crisis situation in NAD province's education post Tsunami. It was aimed to integrate local wisdom, issues in multicultural diversity, and water management sanitation into the school curriculum at various levels.

SEAMOLEC was also trusted with a national program from the Minister of National Education of Indonesia namely HYLITE (Hybrid Learning for Indonesian Teachers) program. It was a program designed to improve the qualification of Indonesian primary school teachers from Diploma II to Bachelor degree. SEAMOLEC has been commissioned to facilitate the design, development, and implementation of the program which involved 23 universities in Indonesia.



2007-2014

Dr. Ir. Gatot Hari Priowirjanto

Dr. Gatot Hari Priowirjanto led SEAMOLEC for 2 consecutive periods and has created a continuously networking strategy with more partners.

Many efforts were carried out during his leadership to redefine and reposition SEAMOLEC as the regional Centre for ODL. Each staff member is also responsible for actively networking and synergizing with new and established partners. Customer satisfaction also became the concern of the Centre as communication with alumni, partners and networks has been renewed through various occasions.

During his leadership there has been many programmes being carried out by SEAMOLEC in relation to ICT development in supporting education. Some of the well known programmes are SEA Edunet, SEAMOLEC Multi Studio, web conference system (using various web conferencing platform), virtual class management, digital book development, mobile learning and mobile game based learning development, online test system, and many more.

Not only the programmes, Dr. Gatot also pays attention to synergy and cooperation among SEA countries. Through school partnership programme and consortium model, he managed to strengthen cooperation among schools in SEA countries and engaged them in active programmes such as student and teacher exchange, language programme, and material or resource sharing. He also expanded the cooperation with ASEAN+3 countries (China, Japan, and Korea) by collaborating with universities and polytechnics from those countries to provide scholarships for students.

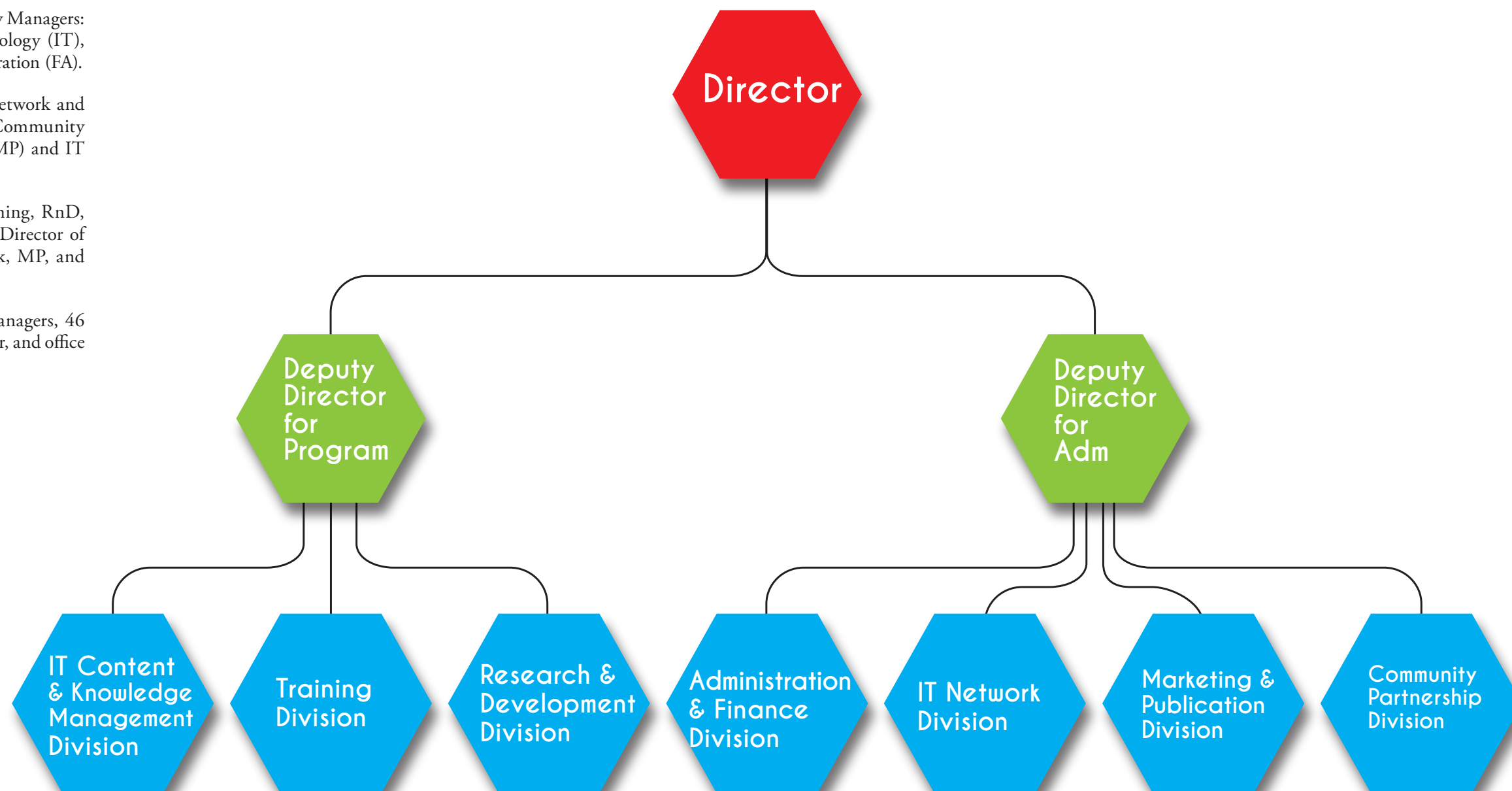
SEAMOLEC is led by a Director nominated by the Ministry of Education and Culture, assisted by 2 Deputy Directors in Programmes and Administration.

In its early establishment SEAMOLEC consisted of 5 divisions led by Managers: Training, Research and Development (RnD), Information Technology (IT), Public Relations and Marketing (PRM), and Finance and Administration (FA).

In 2009 SEAMOLEC divided IT division into 2 divisions; IT Network and IT Content. In 2016 SEAMOLEC added new division namely Community Partnership, and changed PRM into Marketing and Publication (MP) and IT Content into IT Content and Knowledge Management.

The Deputy Director of Program is in charge of 3 divisions: Training, RnD, and IT Content and Knowledge Management, while the Deputy Director of Administration is in charge of the remaining 4; FA, IT Network, MP, and Community Partnership.

Currently SEAMOLEC has a Director, 2 Deputy Directors, 7 Managers, 46 operating staffs, and 27 supporting staffs ranging from security, driver, and office boy.



Facilities



SEAMOLEC Building



SEAMOLEC Building



Cafetaria



Parking Lot



Library



Reading Corner



Parking Lot



Lobby



Children Playground

1st Floor



Digital Class Laboratorium



Lobby



Classroom



Classroom



Staff Room



Staff Room



Lobby



Staff Room

2nd Floor



Director Room



Director Room



Conference Room



Conference Room



Deputy Director Room



VIP Lounge



Studio



Video Conference Room



Lobby

3rd Floor



Restroom



Restroom



Prayer Room



Pantry



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