

**Minutes of the 337<sup>th</sup> PMT Meeting  
11 February 2020, 1:00 p.m.  
PCIEERD Conference Room**

Present

- |                               |                               |
|-------------------------------|-------------------------------|
| 1. Dr. Enrico C. Paringit     | - Executive Director          |
| 2. Engr Raul C. Sabularse     | - Deputy Executive Director   |
| 3. Engr. Niñaliza H. Escorial | - Chief SRS, ITDD             |
| 3. Ms. Edna C. Nacianceno     | - Chief SRS, ETDD             |
| 4. Engr. Nonilo A. Peña       | - Chief SRS, EUSTDD           |
| 5. Engr. Ermie M. Bacarra     | - Chief SRS, HRIDD            |
| 6. Ms. Grace F. Estillore     | - Chief SRS, PCMD             |
| 7. Ms. Russell Pili           | - Chief SRS, RITTD            |
| 8. Ms Marissa Dalay           | - Administrative Officer, FAD |
| 9. Mr. Mark Ivan Roblas       | - Supervising SRS, OED-IG     |
| 10. Mr. Roland Yanquiling     | - PCIEERDEA President         |
| 11. Ms. Carlota P. Sancho     | - Senior SRS, PCMD            |

## **Resource Persons:**

- |                             |                                      |
|-----------------------------|--------------------------------------|
| 1. Mr. Isidro Querubin, Jr. | - Administrative Officer/Budget, FAD |
| 2. Ms. Elaine Salma         | - Accountant/Accounting Unit, FAD    |
| 3. Mr. Roven Tumaneng       | - SRS, ETDD                          |
| 4. Engr. Danilo Pateño      | - SRS, ETDD                          |

## 1. Call to order

Dr. Paringit called the meeting to order at 9:30 a.m.  
Engr. Danilo Pateño led the opening prayer.

## **2. Approval of the Provisional Agenda**

The provisional agenda was approved as presented. It was agreed to give priority for discussion the renewing projects which will be endorsed for GC approval.

### **3. Approval of the Minutes of the previous meeting**

The members of the PMT were requested to review the minutes of the previous meeting and submit comments/corrections within two (2) weeks, if there are any. The minutes shall be considered approved if no comments are received within the given timeframe.

#### **4. Matters Arising from the Minutes of the previous meeting**

## 5. Projects with Pending action

- 5.1 Diversification of Philippine Textiles Through Non-Woven Innovations  
Dr. Julius L. Leaño, Jr., DOST PTRI  
DOST-GIA

1           **Proj1.** Establishment of the Philippine Non-Woven Textiles Innovation Center  
2           Dr. Julius L. Leaño, DOST-PTRI  
3           New DOST GIA  
4           Yr1-P68,436,883.20 Yr2-P8,236,883.20  
5           TOTAL - P76,673,766.40

6  
7           **Proj. 2 - Technical Non-Woven Lignocellulosic Fibers for the Automotive and Air**  
8           **Filtration Nonwoven (revised)**  
9           Ms. Jenneli E. Caya, DOST-PTRI  
10          Yr1 - P24,633,518.40 Yr2 - P5,152,128.00

11  
12          **Proj. 3 -Development of Non-woven Finishing Technologies Toward Alternative**  
13          **Leather (revised)**  
14          Ms. Zailla F. Payag, DOST-PTRI  
15          Yr1-P30,655,025.60 Yr2-P4,559,328.00

16  
17          It was recalled that the program was presented to the GC last December 2019  
18          wherein Project 1 was disapproved. While Projects 2 and 3 were endorsed, the GC  
19          recommended that the production of non-woven fabric be outsourced to Taiwan. Ms.  
20          Anacleto reported, however, that in the rejoinder submitted by PTRI, there is no  
21          definite institution or company yet which could produce the non-woven fabric. PTRI  
22          communicated with Shou Shyng Machinery Co., Ltd. in Taiwan which is a nonwoven  
23          machine manufacturer, for possible rental/production of needle punched nonwoven  
24          fabrics for the project, however, the company do not offer nonwoven processing  
25          services.

26  
27          With the above, communications were sent to several companies in the United  
28          Kingdom and the United States which cater to laboratory scale nonwoven processing.  
29          The name of the companies and the fees for services were presented.

30  
31          The PMT commented, however, to verify again with Taiwan the possibility of  
32          outsourcing the testing services for needle punch nonwoven processing and to  
33          explore from other companies in Asia rather than Europe and the US.

34  
35          With regard to the instruction of the GC to expand partnerships with industry  
36          associations such as auto industry and the Confederation of Garment Exporters, Ms.  
37          Anacleto reported that Form Asia Inc., the sister company of FiberFill Philippines, will  
38          be engaged. She explained, however, the role of the said company is not clear yet.

39  
40          The PMT reiterated to clearly define the role of FiberFill Philippines and Form Asia  
41          Inc in the projects. They recommended that the team find out the standards being  
42          used by car manufacturers for headliner materials which would be considered as the  
43          parameters to be delivered by the project.

44  
45          Recognizing that it will still take a while before results of the project is used by car  
46          manufacturers, the project managers were requested to find out whether the projects  
47          can be tagged under the Comprehensive Automotive Resurgence Strategy (CARS)  
48          Program of DTI in order to help PTRI to connect with the members of CAMPI.

1       The PMT also suggested to consider use of nonwoven fabric for aircon filtration  
2       which is easier to market because it can be sold on retail basis.  
3

4       With the above, the endorsement of the projects for DOST EXECOM approval was  
5       deferred.  
6

7       **6. New Business**  
8

9       **6.1 Enhancement and Market Validation of Plasma Enhanced Chemical Vapor**  
10      **Deposition Industrial Prototype for Nitride-Based Coating**

11      **Dr. Sylvia B. Concepcion, UP Mindanao**

12      **DOST CRADLE -Yr1 - P3,331,728.00 Yr2 – P1,584,664.00**

14       Engr. Al Beato presented the year 1 accomplishments of the project. He reported that  
15       the setup of a functional laboratory for fermentation and purification studies has been  
16       completed wherein a total of eighteen (18) brand new research equipment were procured  
17       through industry partner Monde Nissin Corporation. The brand new equipment were  
18       commissioned and technical trainings on the operations were conducted. In addition, two  
19       (2) equipment including HPLC were transferred from the previous lactic acid project of the  
20       College of Science and Mathematics to the new Lactic acid fermentation and purification  
21       laboratory. Moreover, test runs on all equipment using test samples prior to actual  
22       purification of lactic acid were done.  
23

24       The fermentation experiments using cassava starch as carbon source to produce and  
25       characterize crude lactic acid for succeeding purification experiment is ongoing.  
26

27       For year 2, the project will conduct downstream purification studies starting February  
28       2020 to further increase the purity grade of lactic acid from 50% technical grade to at least  
29       80% food-grade and possibly further to 90% pharmaceutical-grade and 99% research  
30       and polymer grade. The project will also conduct process evaluation and technoeconomic  
31       analysis of the integrated lactic acid fermentation and purification at a laboratory scale.  
32

33       The details of the request for use of unexpended budget was also presented wherein a  
34       total of P614,622.80 is being requested as carry over funds for year 2.  
35

36       The PMT endorsed renewal of the project together with the request for use of UB. The  
37       PMT recommended, however, to finish first the purification of lactic acid into 80% food  
38       grade to be followed by the others rather than doing all at the same time the 80% food  
39       grade, 90% pharmaceutical grade and 99% research and polymer grade. The  
40       workplan shall be revised accordingly.  
41

42       **6.2 PISOLAR: Payment Innovation for SHS Ownership by Lay Away Routine**  
43      **Engr. Filmann T. Simpao, University of Southeastern Philippines**

44      **DOST CRADLE - Yr1 – P2,822,545.8 Yr2 – P2,137,545.00**

45      **Total -P4,960,091.60**

46      **Year 2 renewal and use of UB**

48       Mr. Julius Mayorga presented the year 1 accomplishments of the project. He reported  
49       that pilot sites were identified and visited. MOA with the corresponding heads of the  
50       community are being arranged. In addition, 2 units of SHS modules were delivered to  
51       USEP while the remaining 13 units are expected to be delivered by February 2020.  
52

53       The procurement of the components of the WSN, SMS and RFID modules are ongoing.

1 The developed PI SOLAR server was initially tested (Dashboard, Server Form, VLE  
2 List Form, Customer list).

3  
4 For year 2, the installation, deployment and pilot testing of 15 Solar Home System  
5 (SHS) on 3 identified communities including the fine tuning of collection system shall be  
6 completed. Further, the training will be conducted for 3 personnel for Village Local  
7 Entrepreneurs and 3 for Village Solar to support the technical and administrative  
8 components of the operation and maintenance of the system. Lastly, the licensing  
9 agreement between USEP and LEADTECH shall be facilitated.

10  
11 The PMT endorsed the project for renewal. However, savings generated from year 1  
12 shall be deducted from year 2 budget. The PMT also reiterated that catch up plan for  
13 the remaining year 1 activities be observed without affecting year 2 workplan.

14  
15 **6.3 Understanding the Lightning and Thunderstorms for Extreme Weather Monitoring  
and Information Sharing (ULAT)**

16 Engr. Glenn Vincent C. Lopez, DOST ASTI

17 DOST GIA - Yr1-P18,208,813.60 Yr2- P 7,239,063.60 Yr3 -P 7,239,063.60

18 **Total – P32,686,540.80**

19  
20 Ms. Catherine Baligas reported that year 1 accomplishments of the project wherein 33  
21 out of 50 P- POTEKA sensors and 5 out of 5 V-POTEKA sensors were installed as of  
22 the 3<sup>rd</sup> quarter. Moreover, two Short-term Trainings on P&V POTEKA installation were  
23 completed.

24  
25 With regard to the development of local lightning and weather monitoring instruments,  
26 it was reported that ULAT Project data viewer may be accessed at [ulat.asti.dost.gov.ph](http://ulat.asti.dost.gov.ph)  
27 where a temporary visualization tool for stakeholders was created.

28  
29 In terms of developing an effective observation methods through comparing 3D  
30 structures of thunder clouds, it was reported that the project installed a 3.5-meter  
31 antenna at the Climate Field School, Dumanglas, Iloilo. Permit to operate had been  
32 submitted to NTC.

33  
34 It was reported that lightning, thunderstorm occurrence and rainfall distribution  
35 correlation studies from four (4) stations shows that lightning is a good indication of  
36 occurrence of weather disturbances.

37  
38 Preparation of lightning and weather database from the installed sensors is ongoing.  
39 The project is awaiting for the methodology on geolocation of thunderstorms from the  
40 Japanese partners.

41  
42 The PMT suggested to look for other opportunities to partner with other countries such  
43 as China to understand positive contributions from other similar works. This could be a  
44 means to get the best of their technologies.

45  
46 On the year 2 budget and the request for unexpended budget from year 1, the PMT  
47 instructed that the following be clarified:

- 48  
49
- 50 • Provide detailed breakdown of Foreign Travel and training expenses for each agency  
51 to further justify additional budget for Year 2.
  - 52 • Identify program and source of funding of MS and PhD students reflected in 6Ps
  - 53 • Provide details on the items to be procured for the improvement of the Iloilo GRS  
54 under Repairs and Maintenance Expenses.

- Provide quotation for Publication expenses under UP-IESM to justify the amount (230k) being requested

The renewal of the project was endorsed for GC and DOST EXECOM with originally approved budget as default unless the above are clarified.

## 6.4 Integrated Food Safety Program

## R&D Program to Support Risk Assessment in Philippine Food

Project: Prevalence of Mycotoxin in Rice and Corn in the Philippines

Mr. Edyloid T. Chavez, FDC- NFA

DOST GIA - Yr1 – P4,570,783.00 Yr2 - P2,180,266.00

Year 2 Renewal with 6-months extension and Use of Year 1 Unexpended Balance

Ms. Chelsea Ugay reported that the project was able to conduct sampling of rice and corn from market and farm during dry and wet season, and survey on farm and market practices during production, harvest, storage, and retailing of rice and corn. Moisture analysis of samples was also conducted. However, the mycotoxin analysis on the samples was not conducted because the requested Mycotoxin Testing System was not purchased due to problems encountered in the procurement process and failed bidding of the equipment and supplies.

The PMT recommended to explore use of other facilities such as that of ITDI or any of the ONELAB network for the required testing requirements.

Ms. Ugay discussed that for Year 2, the project team is proposing conduct of mycotoxin testing analysis using ELISA Reader which is an existing equipment from FDC, instead of the originally approved mycotoxin testing kit.

The team also proposed for a 6-months extension for the completion of the remaining activities and to deliver remaining expected outputs of the project. Resampling of rice and corn may also be conducted with reduced number of samples to validate initial results.

## **6.5 Integrated Food Safety Program**

## Project: Prevalence of Heavy Metals and Pesticide Residues in Milled White Rice and White Corn Grits in the Philippines

Dr. Rachel F. Rocaforte, FDC, NFC

DOST GIA – Yr1- P 8,411,668.50 Yr2-P 3,027,312.20

Year 2 Renewal with 6-months extension and Use of Year 1 Unexpended Balance

Ms. Ugay reported that among the expected deliverables of the project for Year 1, the project was able to conduct sampling of rice and corn from market and farm, prepared samples for analysis and storage, and analyzed moisture content od samples. A survey was also conducted to determine pre-harvest and post-harvest practices of farmers, and practices of retailers.

Initial data on lead and mercury contamination of rice and corn samples has been gathered. However, gathering of data on pesticide residue and heavy metals concentrations in rice and corn has not been completed due to problems encountered in the procurement of laboratory service provider for the analysis of arsenic and cadmium, and standard pesticides for method validation of pesticide residue analysis.

For Year 2, the project is proposing to continue with the project activities and catch up on remaining Year 1 activities in Year 2. The project team will continuously coordinate with possible laboratory service providers to ensure analysis of samples for arsenic and

1 cadmium contents. The project has already started with the method validation for the 12  
2 available pesticides while waiting for the delivery of the remaining 4 pesticide standards  
3

4 The PMT endorsed the renewal of the above projects under the Integrated Food Safety  
5 Program together with their request for extension and use of unexpended budget, with  
6 the following suggestions:

- 7 • Separate the framework for the two projects in the presentation
- 8 • Present the accomplishments in such a way that it can be easily understood.
- 9 • The project team to revisit the survey design for improvement.
- 10 • Separate presentation of results for rice and corn
- 11 • Check with ITDI whether testing requirements for Arsenic and Cadmium can be  
12 done in lieu of constraints brought by difficulty in procuring for hiring of laboratory  
13 service provider thru bidding. Advise them of other options such as availability of  
14 ONELAB facility.

15 6.6. SCARP: Simulating Cascading Rainfall-Triggered Landslides Hazards in the Philippines

16 Engr. Fibor J. Tan, Mapua University

17 Dr. Georgina Bennett, University of East Anglia

18 PCIEERD GIA - P4,989,427.20 P4,954,427.20 P4,981,427.20

19 Total - P14,925,781.60

20 UK NERC Counterpart - £370,432.03 (P24,570,346.10)

21 Year 2 Renewal and Carry-over of Unexpended Balance

22 Mr. Carluz Bautista discussed that the overall aim of SCaRP is to determine and quantify  
23 the interaction of meteorological drivers and preconditioning factors that lead to landslides  
24 and related fluvial sedimentation in the Philippines, and to improve prediction of landslide  
25 hazards and downstream sedimentation over a range of timescales.

26 There are seven pilot study areas which include: (1) Vintar, Ilocos Norte, (2) Ilagan,  
27 Isabela, (3) Itogon, Benguet, (4) Infanta, Quezon; (5) Naval, Biliran; (6) Bohol Island; and  
28 (6) Malaybalay, Bukidnon.

29 He reported that the project achieved 93.75% of its targets for year 1. Included in the  
30 accomplishments is the compilation of landslide datasets which were collected from  
31 MGB and PAGASA. This include: 1. Landslide data and maps, 2. LIDAR imageries, 3.  
32 Drone imageries, 4. Geological maps, 5. Landslide geological analysis (rock & soil) and  
33 6. Landslide mapping criteria. Fieldworks activities for scoping and data gathering for  
34 landslide hazard map update, landslide sediment delivery analysis, and mapping and  
35 modelling of landslide-flood interaction and cascading hazards were done. In addition, it  
36 was reported that the development of landslide early warning website portal and training  
37 of PAGASA personnel is 50% complete.

38 The PMT requested that to submit and discuss the methodology for RAS modelling and  
39 sediment flow analysis. Also, the PMT suggested to highlight the outputs generated  
40 through these processes and its relevance in landslide generation and early warning  
41 system.

42 Mr. Bautista discussed the details of the request for use of UB wherein the project team  
43 is requesting for use of P420,000.00 unexpended budget for foreign travel and  
44 P100,000.00 for purchase of 65" LED smart TV. The amount was originally intended for  
45 2 desktops which were not purchased in year 1.

46 The PMT endorsed the Year 2 renewal and additional budget using year 1 savings and  
47 unexpended budget from foreign travel amounting to a total of P520,000.

1   6.7 Extraction of Radionuclides, Rare Earths and Other Valuable Industrial Elements from  
2   Phosphogypsum Tailings  
3   Mr. Rolando Reyes, PNRI  
4   PCIEERD GIA - Yr1 – P4,016,928.00 Yr2-P 783,071.00  
5   Total – P4,999,999.99  
6   Year 2 renewal and use of Year 1 savings  
7

8   Engr. Landicho reported the accomplishments of the project for year 1. Radiometric  
9   survey was conducted at the phosphogypsum tailings ponds at PHILPHOS site which has  
10   eight phosphogypsum ponds.

11   Characterization of the collected surface phosphogypsum samples includes elemental  
12   analysis by ICP-MS and measurement of radium activity by gamma spectrometry.  
13   Characterization of the collected surface phosphogypsum samples includes elemental  
14   analysis by ICP-MS and measurement of radium activity by gamma spectrometry.  
15

16   Summary of the results of the characterization done were presented.  
17

18   The PMT endorsed the renewal of the project and the use of Year 1 savings. The PMT  
19   recommended to find out the significant value of the different REEs to determine which  
20   among them is economically important and to find out the plans of PHILPHOS after  
21   project completion.  
22

23   6.8 Optimization of Virtual Reality Kit (VR Kit) for New Media Technology and Commercial  
24   Competitiveness  
25

26   TECHNICOM - P4,019,382.00

27   Mataverse- P1,468,382.40

28   Change in objectives & Budget realignment without additional funding  
29

30   Engr. Al Beato explained the request of the project for a change in project objective 3,  
31   as follows:

Original	Revision
<p>Specific Objective 3: To develop and produce 50 VR Hardware Prototypes for Testing</p> <p>Deliverables: 50 units of base VR headgear units (VR headset + Immersive integration Audio) with complete controller</p> <ul style="list-style-type: none"><li>• Partnerships<ul style="list-style-type: none"><li>- with one event organizer with nationwide reach</li><li>- at least one furniture company</li><li>- at least one real state company</li></ul></li></ul>	<p>Specific Objective 3: To evaluate the market viability of the VR Software and Content</p> <p>Deliverables (removed VR hardware prototypes)</p> <ul style="list-style-type: none"><li>• Partnerships with<ul style="list-style-type: none"><li>- Two government units for the 360° Capture of its tourist destinations</li><li>- At least one construction or furniture company</li><li>- at least one (1) Real Estate company</li><li>- at least one university to promote the use of VR by students in relevant courses</li></ul></li></ul>

32   It was explained that the project team requested for the change in the objective due to  
33   the current market situation of mobile VR or VR headsets.  
34

35

With the above change in objective, a request for budget realignment is also submitted wherein the budget allotted for the fabrication of 50 pieces base and VR headset units will be used instead for the purchase of one unit laptop, one (1) unit DJI Mavic 2 Pro, and 2 units iPad Pro. Justifications on the said purchases were discussed.

The PMT approved the above requests.

## 7. Other matters

### 7.1 PCIEERDEA Initiatives

Mr. Yanquiling presented the PCIEERDEA plans on the conduct of the following activities:

a. Standard Basic Life Support      March 2020

The PMT posed no objection of this proposed activity. It was suggested, however, that prior to the training, there shall be a review of the existing safety protocols which shall be done together with Red Cross. This shall be the basis for the design of the training which shall be divided into awareness seminar and comprehensive training.

The Comprehensive 4-day training shall be for key personnel only. Moreover, there shall be set of criteria for the selection of the marshals and the personnel to be trained.

The conduct of awareness seminar shall be reduced to 2 – days only.

It was suggested that safety officers during office hours be designated and assigned in 4th and 5th floors.

On the protocols to be issued, include the safety during field work, i.e., accident, virus/ disease outbreak;

Prepare presentation/slides to be shown prior to conduct of every meeting with guests outside of PCIEERD. Include this in the protocol

Check DOLE's safety protocols and use them as basis for customizing the PCIEERD safety protocols.

b. The blood letting activity is tentatively scheduled in April 2020 and will be coordinated with the Red Cross in view of the COVID-19 outbreak.

c. Stress Reliever Activity      starting March 2020

It was suggested that a survey be conducted to determine the appropriate activities for this or to consult a Psychologist to suggest activities. It was also suggested to consider services of a Mental health counsellor. Lastly, it was recommended to try inclusion of the services of a mental health professional in the HMO Package during the contract renewal.

1  
2     **7.2 Foreign travel of Personnel**  
3

4     Dr. Paringit mentioned that numerous requests for foreign travel are endorsed to him  
5     for approval. He reminded the heads of the divisions to ensure that they are aware of  
6     the travel itinerary of their personnel due to the current COVID-19 outbreak. Likewise,  
7     personnel must be cautioned that their travel might lead to 14-day self quarantine.  
8     Everyone must be mindful of the implications on the person's safety as well as the  
9     implications on the operations of the office.

10    It was clarified that sick leave applies in case a 14-day quarantine is seen necessary.

11  
12     **7.3 Allocation for CY 2020 and Fund Utilization Status for the month of January**  
13

14  
15     Mr. Isidro Querubin presented the summary of the 2020 budget distributed per division  
16     as follows:

Division	GIA Allocation	M&E	Total
ETDD	122,595,072	3,791,600	126,386,672
EUSTDD	89,746,583	2,775,668	92,522,251
ITDD	111,950,416	3,462,384	115,412,800
HRIDD	72,750,000	2,250,000	75,000,000
RITTD	164,512,270	5,088,008	169,600,278
IG	29,100,000	900,000	30,000,000
PCMD	4,850,000	150,000	5,000,000
Total	595,504,340	18,417,660	613,922,000

17  
18     From the cash program submitted to FAD, however, it was noted that the total is already  
19     P637,921,543.80 which is over the 2020 budget. Mr. Querubin reported that HRD  
20     program is not yet budgeted where the funds for PCIEERD scholars and those for  
21     trainings are drawn. He requested for divisions to set aside part of their allocation for  
22     the said purpose.

23  
24     It was suggested, however, that FAD prepare a budget for the HRD program to  
25     determine how much is needed before divisions could commit certain amount to be  
26     transferred to HRDP.

27  
28     Still on the budget, the PMT were reminded about the submissions of proposals for  
29     2021 budget specially for Tier 2. Dr. Paringit reiterated that for Tier 2, it is not necessary  
30     that there will be many projects. He emphasized that 1 to 3 big programs could be  
31     submitted which the Council thinks should be pushed. A strong justification from  
32     divisions are expected for this programs which he will champion to DBM.

33  
34     Mr. Querubin also reported that supervision of PCIEERD will be transferred from DBM  
35     Bureau E to Bureau F. With the change of budget analysts assigned to PCIEERD, there  
36     is a request to meet with PCIEERD which is tentatively scheduled on February 26.

#### **7.4 DOST GIA fund liquidation**

Ms. Elaine Salma reported that they have submitted reports to DOST on the unliquidated funds being followed up by DOST. In the submission, she reported that a total of P480M had been liquidated. She added that there will be another meeting with DOST on February 18 to clear the matter.

7.5 World IP Day 2020 - Innovate for a Green Future / case studies/profiles

Ms. Estillore requested the help of PMT in identifying projects which could be submitted to Usec Guevara in connection with WIPO's efforts to gather and highlight green technologies for the World IP Day in April 26.

With the condition that the technology should already be protected, only two projects were identified, i.e., (1) Fish I by Dr. Pros Naval and (2) Vigormin by Dr. Palencia.

## **7.6 Southeast Asia – Europe Joint Funding Scheme for Research and Innovation**

Ms. Estillore informed the PMT of the 5<sup>th</sup> and 6<sup>th</sup> Joint Call under the Southeast Asia – Europe Joint Funding Scheme for Research and Innovation wherein a survey questionnaire for the participation has to be accomplished.

The PMT agreed that the Council will participate in the said Call under the following topics: Maritime Transport, Nanotechnology, and ICT.

## 7.7. Nanotechnology Program

Dr. Paringit informed the PMT that the Mapua University will be the first to offer courses on Nanotechnology starting August 2020. While, SEI could support scholarships, the problem lies on the availability of equipment. In connection with this, Ms. Nacianceno was requested to consider in their plans funding of proposals for the program.

In the absence of facilities at Mapua, it was suggested that use of ITDI Nanotech laboratories be made available to students, considering that Dr. Basilia is also teaching in the university. The need to help Mapua for this was mentioned. Ms. Nacianceno was requested to schedule a meeting with Mapua University to define the program and requirements for the offering of courses on Nanotechnology.

She was also requested to get nanotech people organized by planning a Nanotech event with researchers and industry being involved. She was advised to get in touch with Dr. Jerome Palaganas who will be requested to lead in organizing the event together with Dr. Noni Santos of DLSU. This activity will be included as build-up for the 10<sup>th</sup> PCIEERD anniversary celebration.

Engr. Escorial was requested to also help in planning the event.

## **8. Adjournment**

The meeting adjourned at 7:30 p.m.

Prepared by: Carlota P. Sancho

Attested by: **ENGR. RAUL C. SABULARSE**  
Deputy Executive Director