RESEARCH D Maripi Leynes Local inventors: we must encourage them

NTERMEDIATE technology com-bines the modern qualities of for-eign technology and the limitations of a semi-industrialized society such cign technology and the limitations of a semi-industrialized society such as the Philippines. In this connection, one Development Academy of the Philippines (DAP) project aims to identify, describe and development sector of the additional sector of the addition of additional additional sector of the philippine Center for Advanced Studies, seeks to identify elements of these sector for Advanced Studies, seeks to identify elements of these sector of the sector

such traits. The two studies complement the search for an intermediate tech-nology and for the Filipino tech-nocrass to introduce it. Most Filipino inventions, DAP researchers found out, are merely "paper inventions". Of the thou-sands sized by the Philipipe Patent Office, only ten percent have been produced in actual (not model) size; the rest most probably have rotted in the realm of imagination and pigeon holes. Possibly, some of the inventors

pigeon holes. Possibly, some of the inventors are just "patent collectors" as one PPO staffer claims. They content themselves with mere ownership of patents and claims to being inven-tors, feeling leery of the correspond-ing monetary rewards. Others may have been delimited by production costs, for even the manufacture and



Jeepneys: Filipinos are ingenious

marketing of models already require capitalization. The Filipino inventor, to com-pound his woes, also has to compete with the multinationals who have with the multinationals who have the resources to produce and sell equipment in commercial quantity. Hence, to earn money, an inventor is forced to surrender, at modest returns, his patent to a businessman or a multinational corporation. He then rammis inconsito

returns, his patent to a businessmain or a multinational corporation. He then remains incognito. Problem of Originality. A wrench in the machine, so to speak, is that most Flüpino inventions are not original. They are mainly vari-tions of aready existing products or processes, utilizing either new or a combination of raw materials or changing a particular stage in the manufacturing process. It could also be a new design of an old product. It is however, a totally different story in the advanced countries, where innovations, in the true sense of the word, continually take place in research laboratories which are backed by a company's millions. In research laboratories which are backed by a company's millions. Heavily-funded inventor-researchers, however, are not recognized individ-ually; and the products, as an offshoot of the laissez-faire dictum, do not necessarily accrue to national development. The products must serve multinational interests; the rest is incidental.

sere multinational interests; the sere is incidental. As to why the Filipino inventor france be original, Dr. Cuyugan and sis staft, after analyzing the data stathered from a hundred respond-ent whose names were taken from he list of patent applicants in the POO, found put that Filipino inven-tors are "creatures of circumstance", or the invent what they perceive to be a felt need. The reason is more in the second states of the second second states of the second beat of the second states of the second second second states of the second second second second states and second s

original. Though simple it may ap-pear, there are few, indeed, who can sit down and invent without any specific problem in mind-an ap-proach frowned upon in modern research.

Simple Solutions. Simple prob

research. Simple Solutions. Simple prob-lems, it is said, need simple solu-tions; and the Philippines is not so technologically advanced as to get derailed, as it were, by problems beyond pragmatic solutions, beyond the scope of common sense. Exper-tise has its reason, but so does naive enterprise. Tilippino inventors are not what scientific movies are wont to depict; they are people from all walks of ife, and trained for some other en-deevors-lawyers, teachers, clerks, mechanics, engineers, etc. One, in short, doesn't have to be freaky to be "treative", "uventive. The average Filippino inventor is usually in his lege graduate, without scholastic and academic honors. He starts inventing at the age of

and academic honors. He starts inventing at the age of 38, and gets recognized as an inven-tor at the ripe old age of 52. He is, therefore, a "fate bloome", com-pared to his American counterpart who supposedly is already estab-lished at 24. At 55, an American inventor is lamented as past his ruthing analy.

reventor is lamenee -creative peak. The Fülipino inventor is usually male. Of the one hundred inventors sampled by Dr. Cuyugan's group, only one is female. Dr. Cuyugan's survey also shows that not one of the inventors included in the sample has written scientific articles on the theoretical or practical level. Neither theoretical or practical level. Neither theoretical or practical level. Neither have they demonstrated an interest in the more theoretical or advanced scientific journals. Their interest is concentrated on the applied sciences and mechanics. Theirs apparently is on the level of mechanics, of prac-ticum that evolves its own theore-tical etmoviers. tical structure

From Breakthrough of DAP

## Lessons by mail

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forcements. Workers heed not or putter out from their stations and brought to training centers for assembled training because the method calls for participants to work individually on the materials

and to proceed at individual rates of speed and convenience. The initial phase of the program, covering the period from October 1975 to June 1976, has drawn a total of 867 participants from all over the country, with 792 passing the course. The 75 who failed can repeat the course in the second phase of the program implementation. Here its the distributions of control

Here	is the	distribution		of partici-		
pants by	region:					
Region 1	46	passed	6	failed		
Region 2	7	passed	8	failed		
Region 3	30	passed	0	failed		
Region 4	209	passed	27	failed		

Region 3	30	passed	0	failed
Region 4	209	passed	27	failed
Region 5	62	passed	2	failed
Region 6	42	passed	2	failed
Region 7	125	passed	4	failed
Region 8	66	passed	17	failed



Region 9	95	passed	1	failed	
Region 10	45	passed	0	failed	
Region 11	54	passed	8	failed	
Region 12	11	passed	0	failed	
Total	792	passed	75	failed	

Participants in the 12 regions wer composed of municipal and assistant municipal treasurers, division chiefs, sec-tion chiefs, and supervising clerks from the various local government offices,

municipal treasurers, division chiefs, sec-tion chiefs, and supervision glerks from the various local government offices, high ranking personnel from the police force and from the fire department, ex-ecutive assistants (provincial level), as-sistant provincial treasurers, postman-ters, market superintendents and muni-cipal planning and development officers. Criteria for Selection. 1, Participant should be at least a first-line supervisor of any office in the provincial/city/ municipal government; 2. Participant should be at least a high school grad-uate; 3. Participant should not be less than twenty-one nor more than sixty years of age; priority, however, should be given to those who are not retiring within the next two years; 4. Participants should heave no pending criminal or administrative charge; 5. Participants from offices which have problems in supervision should be given preference along with these who have not undergono-ertification of his immediate chief. Formal training covers the unas-sombled stage and the assembled stage. The unassembled stage lats for a month during which the participants for a morth administre thomes the three volumes

The unassempted stage lasts for a month during which the participants have to read in their homes the three volumes of **Introduction to Supervision** sent to them earlier by the DLGCD through

the Bureau of Local Government (BLG), and the regional and field offices of the DLGCD. The three volumes contain 15 learning blocks covering 8 areas of supervision. The eight areas of supervision are: basic organization, communi-

adjervision are basic organization, communi-ty and human interaction, human moti-vation, leadership, training and develop-ment, work methods improvement, per-formance evaluation, and planning, or-ganizing, directing and controlling The assembled stage is for three days. On the first day, participants undergo the first validation. The test papers are immediately corrected and the errors: tabulated to determine the weak areas of the participants. The four weakest areas would then be the subject mat-ter and then be the subject mat-ter for the remedial session which fol-lows the next day. The activities include lecturettes, games for experimental learn-ing and open forms. On the third day, and open forms. On the bard day, and open forms. On the bard day, determine who among the participants will pass the course and receive the training certificate. Seventy is the passing score.

score. The self-instructional materials alone do not guarantee the user the ac-quisition of the skills of a model super-visor. These materials are intended to provide the participant with an "informa-tion and awareness base." Provided this tion and awareness base." Provided this base, the participant may be able to selectively apply gained ideas and knowl-edge to carry out his daily work of supervision more effectively and effi-ciently. No supervision need start on his job without at least some information on what supervision is all about.