

Agham Bayan

AGHAM AT TEKNOLOHIYA PARA SA REBOLUSYON

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EDITORIAL

Itataguyod ng mga rebolusyonaryong siyentista ang kilusang pagwawasto para sa pambansang-demokratikong rebolusyon

Malugod na binabati ng Liga ng Agham para sa Bayan (LAB) ang Partido Komunista ng Pilipinas (PKP) sa kanyang ika-55 anibersaryo. Pinakamataas na pulang saludo ang pinapaabot ng LAB sa PKP sa mga tagumpay at aral na nakamit nito sa nakaraang taon.

Sa gitna ng mabangis na pananalasa ng nalalantad at nahihawalay na rehimeng US-Marcos, nakapanatili, naitaguyod, at napaliyab ng mamamayan sa pamumuno ng PKP ang apoy ng pambansang demokratikong rebolusyon sa Pilipinas.

Buo ang tiwala ng mamamayan sa PKP na dadalhin ang rebolusyong Pilipino hanggang tagumpay, lalo pa na buo ang diwa ng PKP na isulong ang kilusang pagwawasto upang ituwid ang mga pagkakamali at lagpasan ang mga kahinaan sa mga nakaraang taon.

Ang Liga ng Agham para sa Bayan ay nagsikap sa nakaraang taon upang patuloy na paunlarin ang kanyang organisasyon at mga rebolusyonaryong gawain na tangan nito.

Una, sa nakaraang taon, tuloy-tuloy ang pagdami at paggana ng mga grupo at balangay ng LAB sa mga eskwelahan at opisina. Patuloy ang konsolidasyon ng mga kasapiang ng LAB. Tuloy tuloy ang pag-aaral sa mga rebolusyonaryong sulatin tulad ng Lipunan at Rebolusyong Pilipino, Partikular na Katangian ng Digmang Bayan, at mga Espesyal na Kursong Masa. Ito ay sa gitna ng tuwirang paglahok ng mga kasapi sa iba't ibang rebolusyunaryong gawain.

Pangalawa, patuloy na lumalaki ang mga pangmasang organisasyon ng siyentista, inhinyero, at teknolohista na pinapangunahan nito. Ito ay balong malalim para sa pagrerekluta ng

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*Agham Bayan is published by the **Liga ng Agham para sa Bayan (LAB)** for the purpose of raising the political and social consciousness of Filipino scientists and technologists regarding the issues and problems affecting Philippine science and society. It is committed to the promotion and use of science in the service of the Filipino nation and people. It espouses the cause of national freedom and democracy.*

mga rebolusyonaryo at suporta para sa rebolusyon.

Pangatlo, maraming tagumpay ang nakamit ng LAB sa pagsulong ng mga kampanya na nagtataguyod ng mga karapatan at kagalingan ng mamamayan. Isa na dito ang paglakas ng kampanya laban sa anti-mamamayan at anti-kalikasan na proyektong reklamasyon at komersyal na pagmimina. Patuloy din ang paglahok ng LAB sa iba't ibang laban tulad sa pagpapataas ng sahod ng manggagawa, laban sa jeepney phaseout, paghingi ng hustisya sa mga biktima ng paglabag sa karapatang pantao, pagtanggali sa confidential funds, paglalantad ng dayaan sa eleksiyong 2022, paglaban sa SIM card registration, at marami pang iba.

Pang-apat, lumalakas ang gawain sa larangang internasyunal sa mga usapin ng pagtataguyod ng karapatan ng mamamayan at hustisyang pangklima. Itinaguyod ng LAB ang pakikiisa sa mamamayan ng daigdig sa balangkas ng pagpapalakas ng anti-imperyalistang laban at pagkuha ng suporta para sa pambansang demokratikong rebolusyon sa Pilipinas.

Pang-lima, napadami ng LAB ang suporta sa Bagong Hukbong Bayan at mga rehiyon sa kanilang mga gawain.

Tulad nang panawagan ng Komite Sentral ng PKP, kailangang lumahok ang LAB sa kilusang pagwawasto. upang makatulong sa pagpapalakas nito at ng buong rebolusyonaryong kilusan. Kasabay nito, nanawagan ang LAB na ubos-kayang lumahok sa anti-pasista, anti-imperyalista, at anti-pyudal na mga pakikibaka. Itaguyod ang mga usapin at kagalingan sa sektor ng agham at teknolohiya. Kaugnay nito, kailangang maglunsad ng komprehensibong panlipunang

pagsisiyasat, partikular sa sektor na kinikilusan.

Paramihin, palakasin at palawakin ang mga balangay at selyula ng LAB. Pataasin ang kaalaman at pag-unawa ng kasapian ng LAB sa pambansa-demokratikong rebolusyon na may sosyalistang perspektiba. Paramihin ang suporta at alyansa laban sa rehimeng US-Marcos Jr. Palakihin ang suporta at magpasampa sa Bagong Hukbong Bayan. At puspusang mag-ambag sa pagpapalakas ng pandaigdigang kilusang anti-imperyalista.

Mabuhay ang Partido Komunista ng Pilipinas!

Mabuhay ang Liga ng Agham para sa Bayan!

Itaguyod ang kilusang pagwawasto! Iwasto ang mga kamalian, igpawan ang mga kahinaan, kamtin ang mas maraming tagumpay!

Isulong ang demokratikong rebolusyong bayan hanggang tagumpay! ■

Call for submissions!

Inaanyayahan namin ang mga syentista na mag-ambag ng kanilang mga sulatin, artikulo, tula, dibuho sa Agham Bayan.

Maaari ninyong ipadala sa editorial board sa email na aghambayan@protonmail.com.

People-centric disaster response is possible under national democracy

by Nikola Magbanua & Red Polaris



THE PHILIPPINES, as one of the countries most vulnerable to the effects of climate change, now more than ever needs a paradigm shift in how it approaches disaster response. As calamities worsen under the imperialist-driven climate crisis, many more Filipinos will be pushed to extreme poverty and become refugees in their own country. Until now, there is still no justice for the thousands whose homes, jobs, and lives have been irreparably damaged from the negligence of different reactionary regimes in responding to disasters.

While changes in weather patterns such as storms, earthquakes, and droughts occur naturally in the environment, disasters happen when there is government inadequacy or criminal negligence in preparing

for and managing the aftermath of these calamities. Even today, despite the knowledge that the country is geographically vulnerable to many types of calamities, disaster risk reduction and management systems still fail to prevent large-scale damage to homes, lives, and livelihood. Communities lack adequate disaster preparation and remain at high risk when calamities strike. Afterwards, victims face substandard relief and rehabilitation programs that impede them from bouncing back from the tragedy. Worse, they are subject to intense militarization and bombings when they call for climate justice and fight back against projects that destroy their communities.

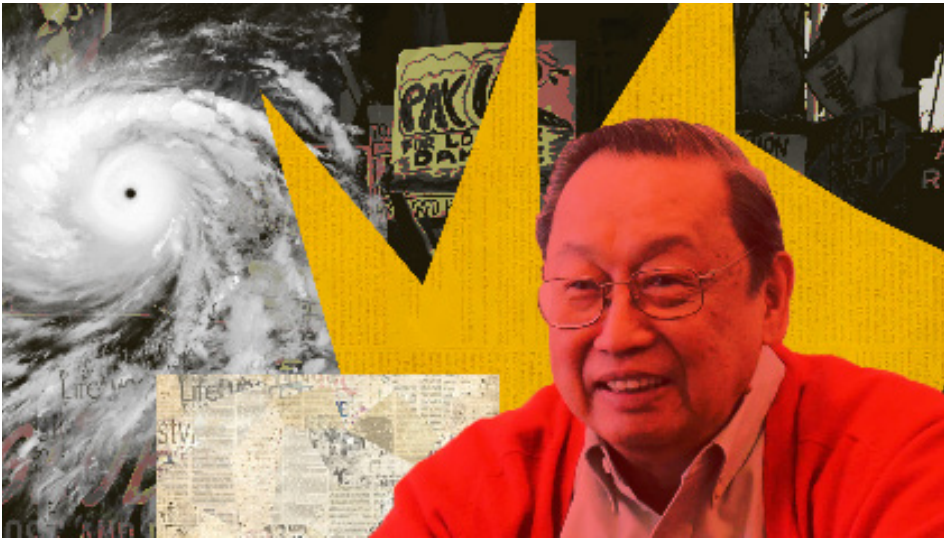
These effects are further compounded by anti-people

laws and programs that pose as “environmentally-friendly” but in reality only worsen the climate crisis by letting large corporations continue to plunder the environment and force thousands out of their lands. No matter their posturing, corporate-driven projects such as the PUV Modernization Program, untested small modular nuclear reactors, renewable energy without just transition, and other false climate solutions will not solve the climate crisis as they all work within the imperialist system that has caused the crisis in the first place.

In stark contrast to the reactionary government, the revolutionary movement, especially through the New People’s Army, showcases its pro-people orientation ... **CONT PAGE 5**

Jose Maria Sison, climate revolutionary

by Bernadette Rojo



Access a collection of Ka Joma's articles, statements, and interviews on the climate crisis on the International People's Front website:



DECEMBER 16, 2023 marked the first anniversary of the death of Jose Maria Sison, the great Filipino revolutionary and thinker. His contributions to the Philippine revolution cannot be overstated, which range from his direct involvement in the reestablishment of the Communist Party of the Philippines (CPP) and the New People's Army (NPA) under the guidance of Marxism-Leninism-Mao Tse Tung Thought in 1968, to his corpus of theoretical works building on the works of Marx, Engels, Lenin, Stalin, and Mao.

Among these contributions is a significant number of interviews and essays commenting on the issue of climate change and environmental devastation. These later works of Ka Joma reflected the growing consciousness of the peoples of the world regarding the ecological crisis that has driven global warming and biodiversity collapse. In this light, it is important to uncover, and vital to draw from, his works on the phenomenon he would term "climate imperialism".

Imperialism and the climate crisis

Since at least 2009, Ka Joma has written and commented on the climate crisis. His works focus on an anti-imperialist analysis of the crisis. In sharp contrast to the dominant capitalist and individualist solutions pushed by imperialism, he identifies the United States and other imperialist countries as the main drivers of the crisis. The anarchic system of capitalist production, resulting in a perennial crisis of overproduction, resulted in the rapid depletion of natural resources and unrelenting increase of carbon dioxide pollution, leading to the current rise in global temperatures.

At the same time, the imperialist drive to wage war to control territories and exploit the resources of other nations leads to the relentless plunder and even destruction of global ecosystems. The military-industrial complex continues to contribute immensely to climate change through greenhouse gas emissions, while

also ravaging communities and countries across the world.

In the Philippines, we continuously live through the reality of climate imperialism. The masses continue to bear the brunt of the climate crisis caused by the relentless ecological plunder done by imperialist countries. Massive typhoons such as Yolanda, Pablo, Ulysses, and Odette have ravaged our nation all within the past fifteen years, while worsening droughts have also caused famines. Worse, multinational corporations and local oligarchs continue to exploit the country's resources, such as with the global scramble for so-called "critical" minerals necessary for renewable energy infrastructure.

It should come as no surprise that the Filipino people, and peoples all over the world, have pushed back against the plunder and destruction of our planet. People's barricades, mass protests, and armed struggle have all emerged as the concrete forms through which resistance

against climate imperialism has developed. In his essays and interviews, Ka Joma also drew from these ongoing examples of social practice to further understand climate imperialism. He made clear that only through struggling against and toppling the world imperialist system can the climate crisis be genuinely addressed.

Revolution against the climate crisis

The concept of climate imperialism provides a lens through which we can understand and appreciate existing anti-imperialist and revolutionary movements across the world. As seen in the case of the Philippines and the movement led by the CPP, the masses have been combatting the climate crisis through active, ongoing resistance against the capitalist extraction fueling global warming and ecological collapse and through struggling for their democratic and ecological rights.

From 2018 to 2022, NPA units across the country carried out no less than 8 tactical offensives against mining companies and the state forces securing these projects. Some of these tactical offensives resulted in millions of pesos in damages, while others led to several casualties on the side of the reactionary state forces. With the openness of the US-Marcos Jr. regime to wanton mining plunder to support the global “green” transition, we can only expect mining to expand in the Philippines, and for the situation of our ecosystems and communities to worsen. There is now all the more reason to support these actions of the NPA against the destruction of our planet and its people.

All around the globe, national liberation and revolutionary movements should

also be seen as fundamental to addressing the global problem of climate change. The armed resistance of the Palestinian people against Israeli occupation does not only promise social liberation, but also promises to shatter a critical appendage of the global military-industrial complex helmed by the United States — the single largest institutional polluter on the planet. West Papuan freedom fighters, fighting for their national liberation, are striking back against the large-scale extractive industries operating on their lands and laying waste to entire ecosystems.

Carrying forward the revolution

Ka Joma’s writings on climate change provide an initial analysis of the origin and the current state of the climate crisis. His works sought to develop and popularize the concept of climate imperialism. Indeed, the growing recognition of the urgency of climate change in his later works has lent to the increased appreciation of the climate crisis by revolutionaries across the Philippines, whether in the urban mass movement or in the armed movement in the countryside. In very real ways, Ka Joma’s spirit lives on as more and more activists and revolutionaries are inspired to take action in response to the growing social and ecological problems of the imperialist world order.

As we continue to fight for a better future for all, let us continue to say: Ka Joma Lives! Let us commemorate Ka Joma, his contributions to revolutionary thought, and his concrete participation in the Philippine revolution. As revolutionaries, let us all draw from and build on the works of Ka Joma as we continue the struggle against climate imperialism. ■

People-centric disaster response... FROM PAGE 3

by the way it genuinely responds to calamities. Beyond its military functions, relief work in times of disaster is one of the NPA’s main tasks. Despite its limited resources, the people’s army was one of the first to provide relief during the aftermath of typhoons such as Yolanda and Pablo. The NPA also mobilized its soldiers to help fix the damaged homes of farmers and construct makeshift flood control mechanisms using indigenous knowledge. It is also proactive in preventing calamities, as proven by its consistent opposition to projects that continue to destroy the environment. In fact, in the people’s democratic government already present in certain areas, there are strict regulations against commercial mining and logging. Foreign and local large-scale mining corporations, for example, are punished or fined for their destructive operations against the environment.

We can expect nothing but more numerous and more damaging disasters under the current semicolonial and semifeudal society. From government negligence and inadequacy in disaster response, to false climate solutions pushed by imperialists, to large-scale foreign-funded projects that plunder the environment, disasters will only worsen as long as imperialist, feudal, and bureaucrat-capitalist system is in place.

It is only through the national democratic revolution with a socialist perspective that we can see a ray of hope in resolving the crisis. The National Democratic Front of the Philippines’ 12-point Program offers viable solutions such that will directly impact disaster response. National

industrialization will wrestle control of our natural resources away from imperialists and bureaucrat capitalists, ensuring that management of our resources and industries will depend not on private profit but on the people's need. The program also mandates a comprehensive and progressive social policy, that will ensure a people-centric approach to disaster response.

Lessons from the Cuban socialist model of disaster response prove that this is possible. Their people-centric disaster response plan was created to adapt to the particular needs of communities and developed with the active participation of its citizens to help identify vital information such as vulnerable individuals, areas, and infrastructure. Congruent to the creation of the disaster response plan are efforts to communicate it to raise public awareness through formal and informal education, and the improvement of science and technology that will aid in weather tracking and modeling, flood control, and agricultural adaptation. Ensuring that quality social services are always available – the availability of food, water, shelter, and hospitals will mean the difference between life and death when calamities strike. Central to all of this is the direct participation of the people's movement in ensuring that communities affected by disasters can effectively respond.

As people's scientists, we are in an important position where we can directly contribute to adopting a people-centric disaster response. In the countryside, we can help build just climate adaptation programs alongside the most vulnerable communities. It is only by waging revolution among the basic masses that we can achieve genuine resiliency. ■

The scientist as red and expert

Revisiting the life of scientist-revolutionary Manuel 'Ka Brigs' Dorotan

BOURGEOIS culture falsely depicts the Filipino scientist as an unfeeling individual; an empirical instrument of the hard sciences motivated only by prestige and fortune. However, scientist Manuel 'Ka Brigs' Dorotan would easily emerge as a shining subversion of this portrayal as his ardent love for the people would ultimately lead him towards the revolutionary path.

Makings of a leader

Manuel Gabito Dorotan, remembered by friends as Manny, was born to a large yet humble family of professional achievers from Irosin, Sorsogon. His father, Vicente Dorotan, was a naturalized Chinese immigrant who married Beata Gabito. Boy or Kid, as they called Manuel at home, was regarded by his mother as the kindest of all her children. At home, he often helped out in his mother's small store. In school, he was a quiet and excellent student who received many awards and had several leadership accomplishments under his belt. He eventually became a scholar at the University of the Philippines and graduated with a degree in chemical engineering in 1970.



Irosin, Sorsogon. Photo from Wikipedia.

The latter part of the 1960s was marred by Ferdinand Marcos Jr's fascist regime, just when Manny had entered the university. Nationalist ideas had begun to take hold among UP Diliman students, leading them to organize protests in the streets to call for reforms over issues caused by the government's inefficiency, cronyism, and corruption as a lapdog to the imperial United States. During this turbulent time, Manny joined the UP chapter of nationalist organization Pambansang Samahan ng Inhinyeriya at Agham (PSIA) and conducted educational discussions in and out of the campus. In 1971, he helped run the campus radio station DZUP during the Diliman Commune. Manny went further and immersed himself in factory areas and picket lines to delve deeper into the working conditions of Filipino laborers. All of these experiences as a young student activist would be the fuel to the spark that would soon inflame Manuel Dorotan to serve his country and fellow Filipinos.

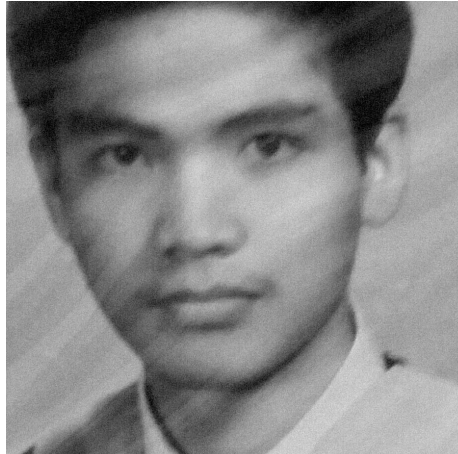
Scientist in the revolution

Manny's desire to serve the people continued to blaze even after graduating from college in 1970 with a degree in chemical engineering. As a professional engineer working at Refrigeration Industries, Inc. (RII) in Quezon City, he organized a union for the company's blue-collar workers, educated them on their rights as laborers, and urged them to fight for these rights. Upon the declaration of Martial Law in 1972, amidst the worsening economic

crises and heightened political repression, Manny took courage and answered the call of the times - he left his job as an engineer, joined the urban underground resistance, and became a full-time union and community organizer as Ka Brigs. His work would become valuable in the rise of worker resistance against Martial Law and the regime's unjust labor policies.

Like him, many other scientists were compelled to take the revolutionary path in the face of the atrocities committed by the Marcos regime. In pursuit of their aspiration to make science and technology serve the people, Ka Brigs and other members of PSIA and Samahan ng Makabayang Siyentista (SMS) founded Liga ng Agham para sa Bayan (LAB), an underground movement of scientists, on December 25, 1975. LAB aimed to unite and organize scientists and engineers to forward the national democratic revolution with a socialist perspective. LAB is one of the 17 members of the National Democratic Front of the Philippines (NDFP), a united front of revolutionary sectoral organizations fighting for national democracy, primarily through armed struggle, under the leadership of the Communist Party of the Philippines. LAB has remained faithful to its cause and continues to do so until now.

Ka Brigs continued to organize and plan major strikes with workers from Nestlé Philippines, Wyeth Suaco, and Mead Johnson to further call out the regime's unjust labor policies. Faced with Marcos Sr.'s ban on workers' strikes and without any guidebooks on how to organize in unions under martial law, Manny and his comrades prudently studied the best ways to address the workers' needs through case studies and extensive discussions



Manuel 'Ka Brigs' Dorotan. Photo from Bantayog ng mga Bayani.

among workers. However, because of intensifying safety concerns in the city, Ka Brigs decided to leave for Bicol.

It was painstakingly evident in Bicol that the establishment of the coconut levy fund by the Marcos dictatorship left farmers' livelihoods in peril while the price of copra began to plummet. The couple quickly realized that, similar to the plight of workers in the city, the concerns of Bicolano farmers fell on deaf ears, and, worse, were met with aggression by state forces. Once again, they started pushing efforts to form resistance groups against the Marcos regime.

Martyrdom

Ka Brigs' robust life of fighting with the masses would be cut short by his martyrdom at the hands of Marcos Sr.'s fascist running dogs. On September 6, 1983, Ka Brigs was shot by soldiers from the 45th Infantry Battalion of the Philippine Army on the way to a community meeting in Basud, Camarines Norte.

However, Ka Brigs always brought his revolutionary spirit with him and roused those of others, even in death. Family, friends, comrades, and people

from communities whose lives he had touched came to pay their respects and bid their farewells during his wake and funeral in Irosin, Sorsogon. This was all despite the extreme repression at that time as Marcos and his cronies desperately clambered to maintain their grasp onto the crumbling dictatorship. The people whom he had dedicated his life to saw him for what he truly was: an honored hero of the revolution.

The Manuel Dorotan of today

It has been 40 years since his martyrdom but the values of Ka Brigs and the truth that he lived still resonate to this day. The issues that plagued the Filipino people during his time persist; the crises of imperialism in our semi-feudal and semi-colonial society only worsening amidst its countless contradictions. Science and its plentiful fruits have remained inaccessible to most and a commodity to be hoarded, sold, and profited off from by the ruling class.

It is inevitable that, like Ka Brigs, swathes of young scientists would see the faults of this system and rise to the occasion to fight back. Being red and expert means that we should use our expertise to serve the people; more so, it means lending our talents to serve the revolution towards victory. No matter where we are, in the academe or in the industry, in the streets or in the countryside, being red and an expert means finding the countless ways in which we can contribute to the interests of the people.

Let us carry the spirit of Ka Brigs and be with the masses in their resistance. Let us engage ourselves in the revolution that ultimately seeks to liberate us all. Through us, Ka Brigs lives on! ■

Liham ng pagpapasalamat para sa Liga ng Agham para sa Bayan mula sa isang yunit ng BHB

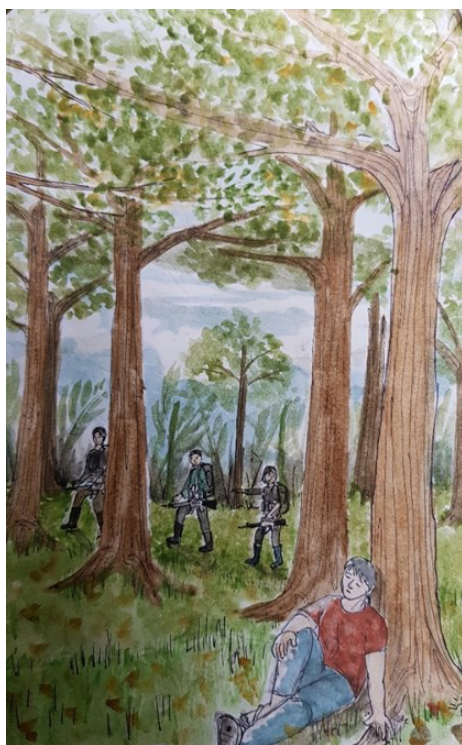
Sa dulong bahagi ng taong 2023, nagpadala ng materyal at pinansyal na suporta ang mga kasapi ng LAB sa isang yunit ng BHB. Ito ang pinadala nilang sulat ng pagsasalamat.

Minamahal naming mga kasama,

Mapulang pagbati mga kasama! Natanggap na namin ang mga pledges at goodies na pinadala niyo! Maraming salamat sa suporta at tulong ninyo sa amin. Sa papahirap at papatinding atake ng kaaway sa ating hanay at sa gitna ng hirap at sakripisyong kinakaharap ng Hukbo ay nakakatuwang mala-man na mayroon kaming maasahang mga kasama mula sa inyong sektor na handang mag-ambag ng suporta at tulong materyal sa pagsusulong natin ng armadong pakikibaka. Sana ay tuloy-tuloy pa rin tayong masikhay na kumilos, mag-mulat at mag-organisa para mas marami pa ang ating ma-katulungan at mas mabilis na umabante ang DRB! At syempre sa bukod sa mga tulong materyal ay higit kaming masaya kung makakasama kayong ihatid iyon sa amin, makipamuhay at sumampa sa BHB!

Btw, eto nga pala ang ilan sa mga likha ng mga kasama... mayroon kami ditong mga workshop para mapaunlad at matuto sa pagdraw-drawing ang mga kasama. Ito ang mga output na nais din naming ibahagi sa inyo bilang pasasalamat!

Hanggang sa tagumpay! ■



Mga dibuhong likha ng mga Pulang mandirigma ng Bagong Hukbong Bayan, bunga ng isang workshop na inilunsad ng kanilang yunit.

Pinag-aralan Niya ang Buhay

Alay kay Jan Michael "Ka Simon" Ayuste (1993 - 2021), martir ng sambayanang Pilipino

Pinag-aralan niya ang buhay,
Kung paano lumalangoy ang mga palos sa mababangis na ilog,
Kung paano dinedepensahan ng mga lumot ang mga puno mula sa hamog,
Kung paano nananatiling malusog ang kagubatan kahit sa panahon ng tagtuyot

Pinag-aralan niya ang buhay,
Kung paano naglalakad ang mga baboy-ramo sa matatarik na bangin,
Kung paano nakakayanan ng mga saleng ang klimang napakalamig,
Kung paano pinapasigla ng araw ang mga bulaklak ng marapait

Pinag-aralan niya ang buhay,
Kung bakit may mga linta, na walang ibang ginawa kundi
sumipsip ng dugo mula sa katawan ng iba,
Kung bakit nilokoko ng mga hunyango ang kanilang kapwa,
Kung bakit nananatiling hari't reyna sa katubigan ang mga buwaya,

Pinag-aralan niya ang buhay,
Kung bakit may mayaman at dukha,
Kung bakit nagugutom ang mga nagtatanim,
Kung bakit naghihirap ang mga lumilikha

Sa kanyang pag-aaral ng buhay, siya'y pinaslang ng mga pasistang hayop,
Upang hindi kumalat ang kaalaman ng buhay,
Upang hindi makamit ng masang api ang pag-unlad sa kanilang buhay,
Upang sa huli'y hindi magtagumpay ang pagbabago, ang katangi-tanging batas ng buhay