

NORTHERN NEIGHBORS

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X-ray specialist Dr. Kozhakistan Shakenov leads class in State Medical Institute, Alma-Ata, capital of the Kazakh Soviet Socialist Republic. Nearly all doctors in this huge republic now are Kazakhs. See for yourself, Pages 14-15 in this NN.

Capitalism's Dream Is Ending **They Picked Up A Space Voice**

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Where Solzhenitsyn Will Go

PAGE 4

Don't Deny Yourself Fats!

PAGE 16

Cash Saving In "Free Book Club" Offer — Page 26

NORTHERN NEIGHBORS

The Magazine of Socialism in Action

Canada's authoritative independent magazine reporting the USSR.

Our 24th year publishing reliable, exclusive news of Soviet developments.

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Our "Four People Plan" ... it really works for you!



Are you the kind of person who gets pleasure out of helping others? If you are, here's a splendid way to bring happiness and enlightenment to four people, and rich satisfaction to yourself.

Try NN's popular and very successful "Four People Plan".

All you have to do is send us Names and Addresses of four people you think might like to try this magazine, might benefit from it once they get to know it. And, send us just one dollar. In turn, we'll send all four people NN. Not just once, but for three months.

If they like it, they'll subscribe. This Plan really works!

NN's Quote of the Month: "There is plenty of difficult and responsible work ahead. Our Party has deep faith in the great creative energy of our people, who are capable of overcoming any difficulties on the way to their goals. And our goals are noble and humanistic — prosperity of our homeland, well-being and happiness for all Soviet people. Our new social and economic achievements will also be of great international significance, still further increasing the magnetic force of Socialism, further raising the international prestige of the land of Soviets. The successful building of Communist Society is our Soviet people's worthy contribution to the cause of strengthening the entire socialist community of nations, consolidating peace and security, for the social progress of Mankind." (Congratulatory message to Soviet people, by their Communist Party leadership, New Year's 1974).

CONGRATULATIONS ALL ROUND!

Here at NN we hoped for it, but honestly we didn't really expect such a remarkable success for our 25th Anniversary Drive. Hearty congratulations from us to you . . . all Readers who have gone right out to the public and sent us in far more Subs than ever in any Drive during 24 years!

Best news of all: the Drive isn't slacking off at all, but on the contrary, is picking up speed!

Now . . . take a look at PAGE-17. Yes, our USSR-NN TOUR is for real. You can write for Application Forms now.

And you COULD go for free: If you missed our offer on Page-17, February issue; write for full details (please send 10-cents for mailing cost).

TWO APOLOGIES THIS MONTH

First we're sorry because we could not forecast such a big increase in Readers . . . so we didn't order enough new books . . . and we didn't realize that new Readers would want so many books . . . so many titles were sold out. We will re-order.

Sorry again, the Editor says, because news from USSR comes in so fast now that six fine Reports were crowded out of this issue. We'll try to get them into April—but what happens if the good news just keeps on arriving?

"LAST CALL" FOR A YEAR . . . PLEASE READ THIS

Trustees of the Charlotte Carter Memorial Fund request that you immediately send in names of all whom you wish to memorialize permanently in the Fund's special publication.

Very soon the Fund will issue for the second time the list of all who support it. Many names have been added since April 1973. For details, see Page-25.

But please remember: if your name, or the name of someone you revere, is to appear this year, you must send us the information immediately.

OTHERS WANT TO READ YOUR PERSONAL STORY!

One of the most wonderful things about working in NN is the discovery that people are not unfriendly. People like people. And that's the point of our BIG Anniversary project. If you missed it . . .

During NN's 25th Year we will bring out a kind of "super-size Readers' section". It will contain life stories. Things our Readers have found out over the years, about people and the struggle for progress. Personal things . . . some of them really marvellous (we know, we've read quite a few so far!).

But it's your story, your thoughts and feelings about life and people, that we want and NEED.

Write it now. Others very much want to read it.

who was right about TROLLEY BUSES?

Probably you know that for many years our transport experts insisted that Soviet planners were backward, stupid bureaucrats, to keep extending trolley bus lines to more cities every year. These agents of Detroit car companies and the petroleum monopolies claimed that gasoline and diesel buses were far better; and private automobiles were best of all, for travel.

You know what happened to our cities. Deathly smog. Hopeless traffic jams. High transport costs.

Do you know what's happening to trolley buses? City after city in Canada and USA is trying to buy them. The one plant making them, in Winnipeg, is swamped with orders. Two more plants are opening in USA.

You'll find it useful to know why Soviet planners bet on the trolley bus for surface transportation.

- They're silent, smooth, comfortable, roomy.
- No fumes to pollute the air; last much longer with rare repairs; run on very cheap electricity.
- First tried in 1933 in USSR, the public went for them, and the trolleys soon appeared in many cities.
- Today, the Soviet Union leads the world, not only in number of these buses, but in their quality.
- Newest models are "articulated"—two flexibly linked in middle, carrying 160 passengers.

Trolley buses aren't tied to rails, like street-cars. New Soviet designs allow them to maneuver in traffic. Some streets have three "lanes" of trolley buses. The early problems — trolleys coming off overhead wires, at switching points — have been completely solved.



Lately, electronic-controls have greatly increased the power efficiency and smoothness of trolley buses. Fan-powered ventilation and electric heating make these vehicles comfortable in all weathers.

Soviet cities also use trolley trucks, for carrying freight: **fast, no noise at night, very economical.**

But of course their main advantages are for people.

Socialism makes it possible to operate trolley buses at a profit, with a **four cent fare!**

With a "monthly ticket" at \$2.00 you ride all you want . . . average Soviet person takes 120 rides a month, so they pay less than **two cents a ride.**

Yes, in smaller cities, they use diesel buses. But everywhere, as a city's transport network grows, the people insist on trolley buses taking over. That's why, in recent years, some 10 more cities a year convert busiest routes to the electric transport system.

You have only to take one ride on a Soviet trolley bus to know who was right.

who was right about SUBWAYS?

The USSR's first subway opened in 1937. Today that Moscow "Metro" has 100 stations, most of them far below the surface. All are very distinctive, and some are so beautifully designed that they are more like art galleries than transport stops.

• Four out of ten Moscow citizens prefer the subway to any other form of transport, and they have them all.

• Stations on the "Metro" are well spaced, so trains reach maximum speed, and travel is swift.

• All air is changed (by gigantic pumping systems) four to five times every hour, and this gives their subway a surprisingly "outdoors" atmosphere.

• The "Metro" serves all points where passenger traffic is heavy, such as sports centers, railway stations, stadiums, theaters, concert halls, big hotels.

• Other transport systems (trolley buses, buses, street-cars, mini-buses, taxis) are linked to "Metro" stations, for convenient travel to any destination.

Outstanding success of Soviet subways has led their experts to the conclusion that every city, when it reaches the one-million-population level, needs underground railroads to prevent traffic congestion.

But then . . . they have Socialism. So the fare you pay to ride their subways is in no way shared with any who make profits. The fare? It is **five cents.**

You can ride everywhere in Moscow, by subway, all day and most of the night if you wish, for that one charge of five cents. So maybe they've been right about more transport questions than just the subway.



Many cities of the world have underground railways for mass transport. However, over the past 25 years most Western subways (not all) have degenerated. Only when city traffic became unbearably congested did the subway begin to improve its status in transport.

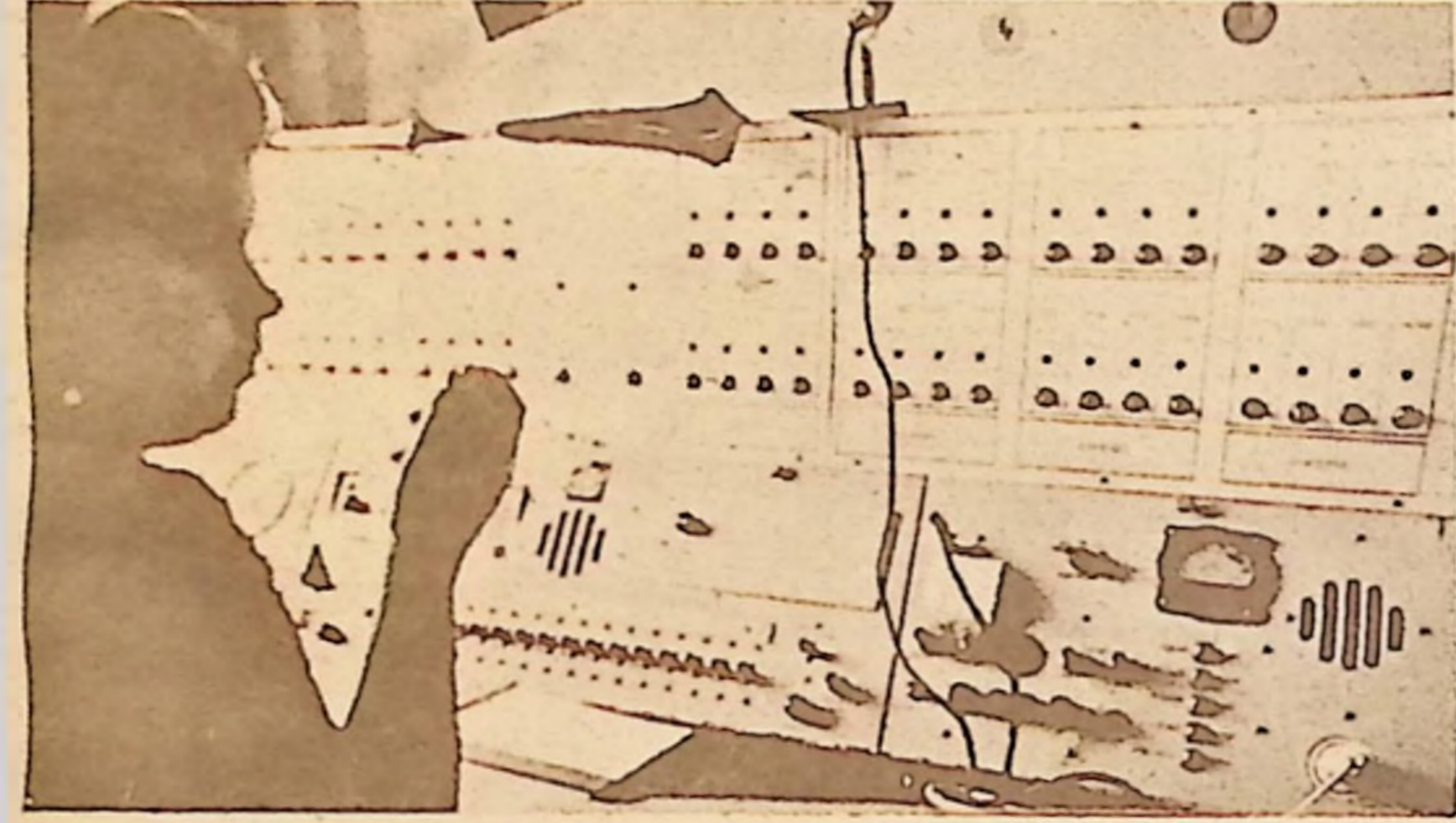
Today, especially in USA with its incredible total of 112,000,000 gas and diesel vehicles, the campaign to "get the car out of downtown" is bringing some public help to decrepit, overcrowded subways. But there is still a tendency to regard the subway as a transport system of the past . . . or solely for "poor" people. So much attention, and huge sums of money, are being spent on "super-duper" rapid-transit projects, which are completely unproved in practice anywhere.

In this situation the Moscow "Metro" is attracting wide attention. First because it carries millions of people daily, in speed and comfort. But also because it is very successful, economically and with the public, and is the most attractive system in the world.

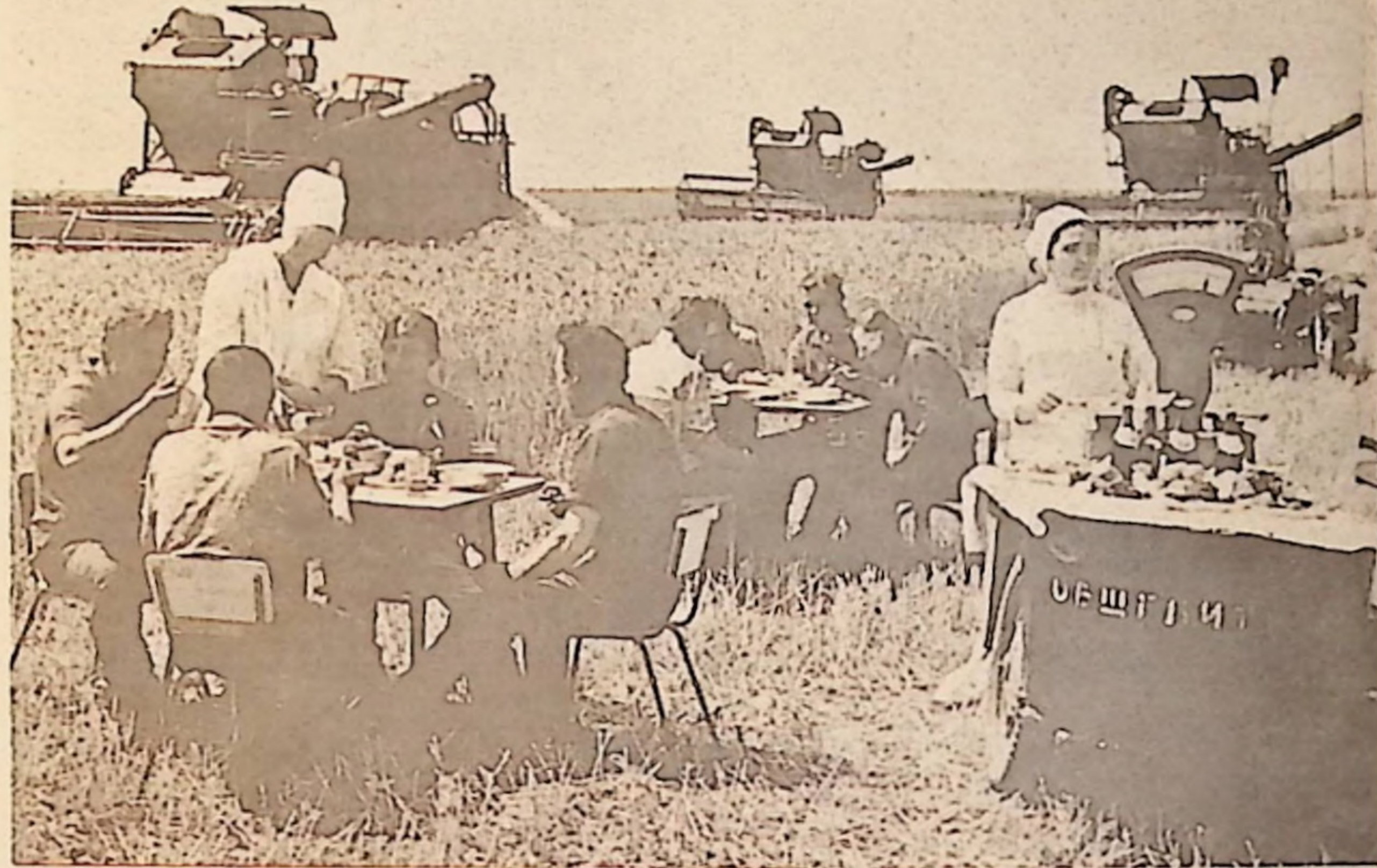
THEIR CROP . . .



Congratulations! Pyotr Kashirin, Chairman of big Co-Op Farm "Rossia", greets combine operator Ivan Naursky, who threshed the astonishing total of 25,600 bushels of wheat.



Many of the giant State Farms out in Kazakh Republic are so big that harvesting crews must camp out where they're cutting, and follow directions of radio despatcher.



Dining-room staff of Chapayev Collective Farm (Vinnitsya Region of Ukraine) takes to the fields at harvest time. Here, from mobile kitchen, they serve men a hot lunch. Nice way to work and live, no?



"NN" Readers saw these new "Kolos" combines when first manufactured. They're specially designed for very heavy yields. Here a "company" of them is bringing the grain in on the Slavone State Farm, in fertile Crimea region.



Dr. Vasili Remeslo is one of world's outstanding plant biologists, renowned for his new winter wheats. His varieties are gaining wide acceptance abroad.



In Krasnodar Region last fall they brought in a very heavy crop of corn.



Potatoes are a major crop in the Byelorussian Republic. Even in bad-weather year of 1972 they had heavy yields. In 1973 the harvest was so big that the new mechanized harvesters had all they could do to cope with it. At Vedrich State Farm their best machine operator (sorry NN did not get his name) brought in over 1,760,000 pounds of spuds . . . it could be a world record?



Peter Kostejnyuk and Ivan Timichak, of Rodina Collective, Mikolaev Region, Ukraine.

... A HARVEST OF SOCIALISM

You'd be safe in saying that there isn't a "farm editor" on any paper in Canada or USA who has all the vital facts reported here.

With this information you'll be able to win many an argument in coming months. A basic change is taking place in our world, as Socialism-in-Action solves the worst of all shortages . . . FOOD.



Sixty-out-of-100 acres of Soviet farmland are always in danger of **crop ruin** because of weather. In USA, hardly **one-in-100** acres are thus threatened. Yet Socialist economics, politics, and science, have now combined to put USSR well on the way to surpassing USA in agriculture.

Draining wet land, irrigating dry land, on a vast scale, have helped Soviet farmers to **beat nature**. And they've been supported by 60,000 scientists working in 800 research centers. To say nothing of 800,000 industrial workers making farm machinery.

Example: Kalunda prairie of Siberia was written off for farming, due to dust storms. You'd never recognize it today . . . it's a **forest-prairie**. Trees, sub-surface plowing, grass and crop strips . . . and now big State Farms there **average 35 bushels** of wheat per acre!

Example: former wet wasteland is now growing rice; bumper crops; enough to **export** to hungry lands.

Sometimes liars figure, but figures for harvests tell you the striking truth. In 1961-65, USSR averaged 4.8 billion bushels of grain per year. In 1966-70 their grain crop reached 6.1 billion bushels. Latest year, 1973, Soviet farmers took in **7.9 billion bushels**. Yields? Entire Moldavian Republic averaged 52 bushels per acre! In several republics large districts are taking in 58 bushels from every acre of wheat.

Judge for yourself if nature **helped** that crop. In 1972 winter, much of USSR was **bare of snow** through December (very bad for winter grains). Light snow in many areas, low moisture. Blazing drought in Ukraine and elsewhere. Just when grain was ready in eastern prairies, incessant rains came. And rich Altai lands suffered cold summer, soaking-wet autumn.

But! With **greatest-ever** supply of **fertilizer**; and bulldozing **snow** to retain moisture; and armies of **combines and grain-dryers** . . . they won.

Our experts seem **quite unconscious** of what Socialism is doing to farming. Check these basics:

- ✓ Today **worker-farmers**—employees of Socialism on the land—number well over 8,000,000.
- ✓ This year the Socialist system is **investing over 31 billion dollars** to advance Soviet farms.
- ✓ Not only grain and cotton, but livestock also, is changing over to **industrial production methods** (even USA has nothing like new Soviet pig farm-factories).

Still, if you want to be ahead of nearly every expert in Capitalism, you should see that the **grand change** in Soviet farming is just getting underway.

It's this: many big State Farms, and Collective Farms, are **linking together** in massive joint operations, such as livestock. Just one of these, in Tambov region, invested 45 million dollars and in five years paid it back plus **94 million dollars profit** on that expenditure.

But money isn't the main aim of this change.

The basic aim is to lead the collective (co-op) farmers into the **more advanced State Farm system**, by proving conclusively that it is a **superior way to farm**.

These new enterprises are farms-plus-factories. Up to this year, some 700 meat-and-dairy plants have been set up on this basis. They assure Soviet people of **more milk, butter, cheese and meat than ever**, at no price increase. Contrast that to our situation . . . dairies closing, prices soaring out of sight.

They're really **industrializing** their farm lands. Thus in the Altai (a main grain zone) they've now got 480 factories, making hundreds of thousands of tractors, plows, other implements. Incidentally, a highly skilled Altai worker, Ilya Maksimenko, in '73 broke all records when harvested with his combine 90,000 bushels of grain! Many thousands of Soviet workers regularly take machines out to the farms at crop time.

Those same workers now produce **three times more harvesters** than USA, **twice as many tractors**, over **twice as many grain drills**.

Over here, Soviet grain gets the publicity, and yet Soviet cotton now dominates the world scene . . . in the Uzbek Republic last year their yield broke all records, and they took in 9 billion pounds. This has come about at a time when a world cotton **shortage** has pushed up the prices of our clothing, but not the clothes people buy in Socialism.

What about "individual" farming in USSR? Our papers still harp on the little plots their Co-Op farmers have (about half an acre) for their own use. **After the war** (economy in ruins) those bits of land helped a lot. But now. Most produce grown on the private plots is **consumed by the family**.

But some farmers still sell their surplus. Usually, to the Socialist system . . . the "peasant markets" selling to the public play a decreasing role every year, and have no future in Socialism.

Industrialization of farming is that future. It is combining science and engineering with advanced methods of **management plus strong incentives** to farm workers, to raise production-per-farmer and slash costs.

No — USSR has not yet reached farm productivity level of Canada and USA. But their labor efficiency is rising at a rate of **over 10 percent per year**, along with a 7 percent rise in **production per acre**.

This year their aim is to take in a total harvest worth well over 110 billion dollars, with fewer people on the land than ever in their history.

Those farm people will get a **higher return for their labor** than ever. While the population as a whole will pay **not a cent more** for any food or fabric.

Socialist farming has reached an **altogether new high level** and is headed one way only . . . UP.

Can we go on living with CRIME?

In the Soviet Union, people firmly believe that you can't have progress in society as long as crime increases.

So what are they doing about that? You should know. You'll never find out in our papers.

They've stopped printing any evening paper, in Boston. Know why? In that old "respectable" USA city, people are too scared to go out after dark even to buy a paper. Crime is that bad.

In USA as a whole, serious crimes will total over 6 million this year. Partly because of new children's gangs . . . in New York alone they have 16,000 known organized kid gangsters. In first 8 months of 1973, they murdered 30 victims.

That's in the "most advanced" nation of Capitalism.

Now look at Socialism. You may not believe this, although many Western reporters have confirmed it on the spot . . .

In Moscow, one of world's biggest cities (over 7 million), it's a bad night for the cops if they have six crimes.

If you visit police headquarters (our photo above) you see them talking to cops around town. Lots of calls come in. Nearly every call is the same: "This is me, Number So-and-So. I've got nothing to report."

Special attention is paid to calls from cruiser cars. Moscow at night has between 12 and 18 cars on duty. That's for the entire city. No joke, it's true.

You can prove it. Thousands of Western tourists do it all the time . . . take a walk in a Soviet city in the middle of the night, and see no crime, no cops.

Chief Inspector Tamara Ganina, of the juvenile bureau, has been at the desk over three years, and hasn't had one kid brought in for mugging, or drugs.

"What about murder?"

"You have to be joking!" the Inspector says.

In USSR they have fewer police than ever. In USA they're hiring battalions more each year. And here in Canada our murder rate has shot up 53 percent in 5 years, with robbery up 83 percent.

Socialism must be doing something right, about criminals.

Crime as a profession no longer exists in USSR. But they still do have individual crime. Mainly five varieties . . .

Murder. Assault (including rape). Theft of public property. Theft from individuals. And the crime that worries them: hooliganism.

Oh man. It's bad. Hooligans use nasty words in public. They get drunk. Annoy people. They'll even try to make you give them a buck to buy another drink. Tsk-tsk.

Now look at robbery.

The big majority of thefts in USSR are done while drunk, usually to get money for more liquor.

Most of the other thefts are not for personal gain.

How's that? Well, a lot of men and women cook the books so their shop, factory, farm, or whatever, goes over the Plan!

Soviet people take a very dim view of that kind of crime.

Contrast that to "paper crime" over here. Estimates are that it costs business in Canada over one million dollars daily.

Employees stealing food, drugs, supplies, from hospitals, is a real factor in soaring medicare costs.

But thefts by executives make employee pilfering trivial . . . some believe billions every year are stolen by business "leaders" in one or another book-cooking system, or by straight thefts.

Well, as they say, "If guys like Agnew can do it, why not me?"

Better not be you, in USSR. And facts prove that far fewer people turn to crime now, in Socialism, than ever before.

Take Moscow. When population doubled, crime went down 65 percent. Paper crimes (swindling) in the Soviet capital has been cut to 5 percent of its pre-war level.

And this brings us to the very essence of Socialism's approach to crime . . .

They still have it. But it gets less all the time. Because crime is not built in to Socialism as it is in free-enterprise. The more the new system advanced, the less people turn to crime.

Why? Because Socialism steadily raises the material well-being of every citizen, and at the same time raises the educational and moral level of all. Inevitably, this lessens the "appeal" of crime.

And when you have no "rich getting richer, poor getting poorer," you have eliminated the major cause of crime here in Capitalism.



Soviet Union is no paradise. Thus, in the tough conditions of some big construction projects, life is rough, people drink, crimes go up. And they still have youth who "don't make it" in school, get poorest jobs, drift into all kinds of "anti-social" behaviour.

But keep this in mind: what they call "crime" today is mostly what our police ignore . . . drinking in public, staying away from work, "hooliganism" and all that.

And the whole of Soviet society actively works to prevent crime. Recently, 1-in-5 crimes have been "settled" out of court . . . Trade Unions or other bodies have taken the offenders in a kind of parole system, to educate them socially right OUT of crime.

You can be as sceptical as you want, but the fact is that they have everything going for them, in Socialism.

Nobody ever gets rich on crime. But nobody ever gets rich, period. You can get ahead only by working. Never by "making a profit" . . . as in our system, where the right and wrong of profit-making is a very hazy difference.

Their approach is unwavering. It insists that crime became a mass problem only in Capitalism; and when crime appears in Socialism it is out of the past . . . a disease that must go, and will go, as people completely get rid of the past.



Some beautiful rock designs are left after powerful automatic cutting machines tear out the hard salt-ore. Some potash veins here extend nearly 1,000 feet downward.

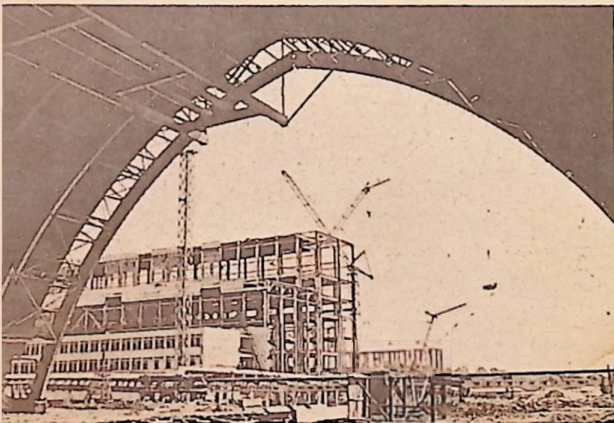
let's all go to - THE SALT MINES!

Nature was good to the Soviet people, some 250,000,000 years ago, when the ancient Permian Sea dried up and left its bed of salt covering an area of 1,200 square miles.

Near Solikamsk, in the Urals, they have the richest bed of potassium (potash) in the world. Along with it, rock salt, or sodium chloride. So with a minimum of expense they turn out the highly valuable (for grain crops) potash-chloride.

Today, the Uralkali mines fill 40 long trains of heavy freight cars, every day. Everything is done by machinery. They leave enough rock above to prevent mines caving in.

Soon the plants here will deliver 30 million tons of quality fertilizer yearly, a tremendous boost to world food supplies.



This is the third big processing plant based on the Urals "Permian Sea" salt bed. It comes into operation this winter. Some more such plants will be constructed.



Machinery does the work, but men who run it must be experts, since rock veins rise and fall like waves of pre-historic seas that formed them.



Potash rock here is very pure, but has to go through much processing. Here's a section of one concentrating plant where ground rock, made into a mud with water, is cleaned.



At Kiev Institute of Automation engineers have developed new control system for these mines. Units here show controllers how entire transport system is operating.



Giant Soviet-built cutter-loader at right can run by itself for hours. "Miners" (really technicians) drive on inspection tours, using special cars (one at left). Shafts are so solid that no props are required.

Now: world-wide automated ship control

Socialism has fleets of freighters, carrying thousands of commodities all over the world . . . so Science finds way to plan sailors' work for safety, speed.

Picture yourself sitting before a huge "panel" — really a map of the world, with TV screen below.

On a typewriter, you "ask" this machine a question. It can give you answers like this . . .

What freighters are in any particular area of world; what each one is loaded with; which ones are in port; what they're loading or unloading; when they'll take off, for where.

The new Soviet machine has its own name: "ASCMF". Stands for long words: **Automated System of Control for the Ocean Fleet.**

So what's it all for? ASCMF will find the fastest, safest, lowest cost route to deliver or pick up any of a thousand very different kinds of goods, anywhere in the world. Now starting up, it will handle entire Soviet fleet by 1975.

That job was getting beyond the powers of the human mind. Because USSR now operates 1-in-5 of all freighters on all seas. This huge capacity will rise by 400 more ships by the time ASCMF takes over. No man, however experienced, can gather the facts about such a gigantic freighter-fleet; and make every needed decision to ensure top efficiency; instantly.

But ASCMF can do. It "knows" all the facts about 1,600 freighters in 1,040 ports, making 25,000 calls in a year, carrying thousands of special goods (about 10,000 of them must be carried in special ships or containers!).

Add problems of weather, orders coming (hundreds per hour), all the emergencies that can arise at sea,

and you see why human controllers can't cope . . . they do their best, but it's not good enough for world's fastest-growing system, Socialism.

In fact: this new scientific shipping control system can work only in Socialism. In the world of Capitalism, hundreds of shipping lines are in fierce competition, and one owner's smart move is made only at the expense of a rival . . . net result is heavy waste.

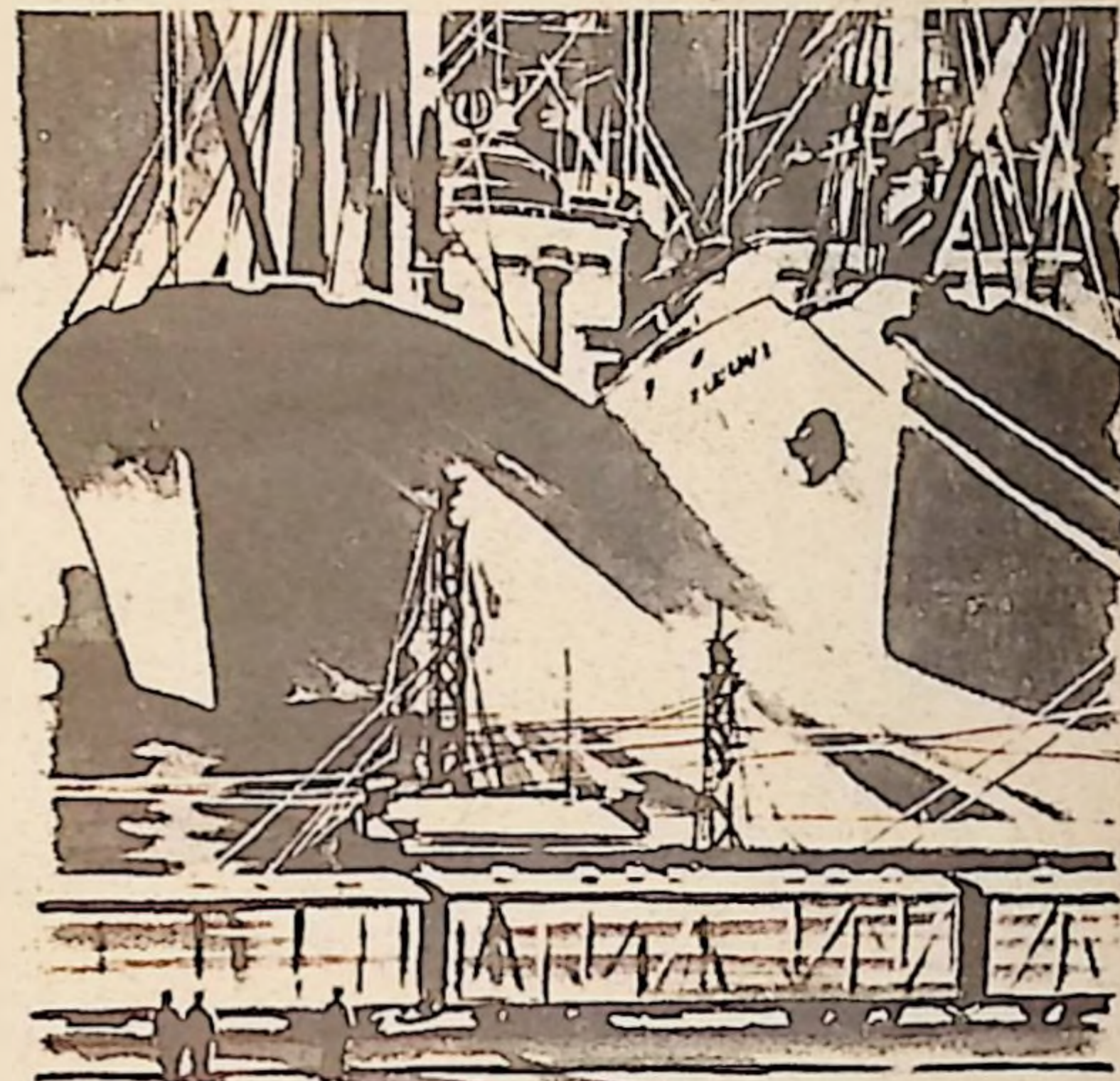
That's why Soviet lines are able to out-bid others. With ASCMF they'll win still more of world's shipping business.

However, ASCMF works to fullest efficiency only inside Socialism. Thus, in 50 big Soviet ports the new control center will handle every detail of sailing, loading, unloading, supplying, etc. . . . counting time down to the minute saved.

Even so, Soviet freighting has a big influence on capitalism's shipping today. Not only because the Red Flag Fleet grows so fast. But because the USSR gives fair deals to underdeveloped nations, countries that used to be ruthlessly gouged by billionaire shipping tycoons like Onassis, can now avoid swindlers. To stay in business, private-enterprise on the seas is compelled to clip profits.

All this has led major western nations to make favorable shipping agreements with USSR.

For example, using containers for maximum efficiency (exchanges, etc.) Container-shipping is especially suited to the planned efficiency of the Socialist economy.



You see big change in world's shipping from these facts: Soviet freighters carried well over 100 million tons of goods to 92 nations in capitalist world, last year, on 51 regular shipping lines.

In 1975 their freight volume will rise another 65 percent . . . they know, it's planned.

Soviet ships get the business because so many are new, fast (20 to 25 knots per hour); cheapest. ASCMF will make them still more competitive.

Incidentally, passenger ships flying the Red Flag inside and outside USSR waters, now carry 43 million people yearly!

Indeed, comfort and friendliness of Soviet cruise ships have won so many customers, that their business is soaring.

We paid heavy price for USA-Israel closing of Suez . . . soon to re-open.

The first aim of Israel's attack on Egypt in 1967, was to seal off the vital Suez Canal. Outwardly, to cause disastrous financial loss to Egypt. But the real aim was to carry through USA strategy . . . use Suez to blackmail Arab nations into giving Israel (USA) permanent control of waterway.

For six years Israel and USA pressed demands that Egypt give up, for good, a huge area of Canal and other territory, as the price for re-opening Suez.

But this insolence, even though backed by Washington's might, failed. Egypt found the support it needed in the Socialist world . . . and USA's own allies began to insist that Suez be restored to shipping.

For six years USA ruthlessly cut profits of its "friends". Thus nations of West Europe, and Japan, were forced to pay more than 6 billion dollars, in extra freight costs, by sailing "around" the Canal.

You can easily picture this. Take oil. Arab nations shipped some 144 million tons a year, through Suez. With today's much higher oil consumption, that figure would be 200 millions. To ship it all around Africa cost \$3 dollars a ton extra . . . before shipping charges soared.

Time, too, cost billions. The best tankers can make only six trips a year around Africa; through Suez they can make 15 runs. Costs of wear-and-tear and crew wages have thus gone sky-high.

Finally, Europe couldn't take it. By 1980 their need for oil will be so high that they'd have to build a fleet of 500 super-oil-tankers just to maintain Israel's blackmail.

One development burned them. To "compensate" for closure of the Canal, Israeli trucking operators started hauling oil by road to ports in the Mediterranean. Profiteers cashed in. But West Europeans paid the bill.

So did we . . . before the Arabs raised oil prices, we paid billions in inflated prices due to that shut-down of Suez.

Now, Suez will re-open. It's a major victory not only for Egypt but for the USSR, and world trade, a real blow against climbing costs.

They hear the crying of the ICE

We humans have been familiar with ice for thousand of years. We even coped with the Ice Age. Surely we know everything about ice?

Soviet scientists have discovered that ice is one of nature's most fascinating mysteries.

Scientists long thought that they knew everything about ice. But in recent years, as Soviet people moved into their Far North, by land, air, sea and river, it became obvious that ice could be very useful in some ways . . . and cause terrible damage in other situations. You can run into a lot of trouble with that "know-it-all" approach to ice.

Now in USSR research centers ice is being studied by chemists, physicists, mathematicians and even biologists. They investigate not just its familiar qualities (like strength, wetness, swelling) but also its electronic properties, its magnetism, the way it reacts to radio and other rays.

And the more they probe into ice, the more surprising are the facts that come to light.

You can well understand that laboratory scientists were astonished when they went for trips on the giant "Lenin" atomic-powered ice breaker. To such researchers, ice was a cold, wet, dead thing. But up in the Polar Sea they had the strange experience of hearing the voices of ice.

Ice often makes cracking and groaning noises. But in the Arctic, where ice "grows" rapidly, it whines like a dog, groans as if in great pain, rumbles ominously like gunfire, and sometimes roars with frightening violence.

Most impressive of all is when ice raises all its "voices" at once, sounding like a great pipe-organ playing crazy music.

No longer do scientists brush off the Voices of Ice.

Because ice really does talk.

Glacier ice, for example, can tell you what great masses of ice are going to do, long before you get any measureable signs.

In the Polar Sea, when ice is going to break up (often violently) it rings like bells, or sighs like a human being, or booms in its own language.

Ice also speaks inaudibly.

Young Soviet scientists were first to take to the Arctic ice with every kind of modern apparatus. They soon found that ice "speaks" in sound our ears can't register.

Very soon they discovered that ice seems to be responding to the surrounding air, when it talks.

But how does ice make such wide ranges of sounds, from unheard whispers to terrible uproars?

Somehow this is related to the "tension" in ice. Ice can be almost like a living thing, responding not only to air temperature but to winds and water currents. It moves, writhes, and with fearful violence can suddenly close in on a steel ship, crushing it.

Many complex researches are going on, because it's very important to find ways of predicting what ice is going to do.

Strangely, living seals have the power to forecast when ice floes are going to move, break up. But scientists haven't yet discovered how they do it.

In fact, research has had to go right back to "square one", in new studies of ice. Right into the ice-water molecule. Past that, into the "hydrogen bond" between atoms that constitutes ice.

So ice is X-rayed. Ice is made with radio-active atoms (so they can be traced instantly).

These studies prove that ice is not solid at all: its molecules change places in a millionth of a second. Its crystals change greatly in shape, size, and how they arrange themselves.

And the very slightest impurity will radically change what ice is and what it does. . . making practical studies very difficult indeed.

Earlier investigators never dreamed that ice "reacts" strongly with radio waves. Now, using such waves, Soviet scientists (usually in aircraft) can instantly gather masses of facts about ice, over great distances . . . spotting marked changes, patterns, etc.

One of the newest discoveries is that magnetic forces greatly influence ice. Ice crystals "line up" in magnetic fields. You can create special forms of ice, by freezing water close to powerful magnets.

And that led on to astonishing "ice electronics" discoveries, key to many ice mysteries.

Nobody dreamed of it a few years ago, but ice is a semi-conductor, and thus has an "electronic life" of its own. It can act as a transistor (used in radio sets).

Ice can rectify electricity (change alternating current into direct). And just by rubbing chunks of ice against each other, electricity can be produced.

Finally (rather, finally so far!) ice generates electricity when it is colder in one place than in a nearby layer; and when it starts to freeze, current flows.



Now, do these remarkable properties of ice explain its "voices"?

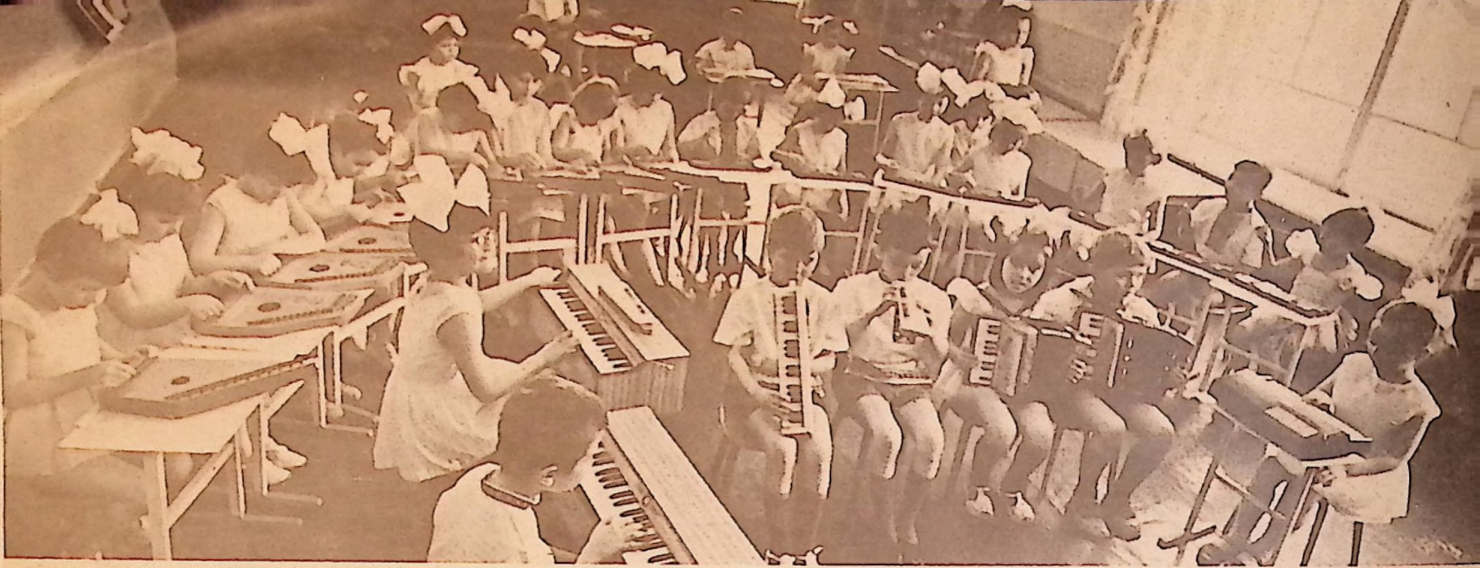
Is it possible that ice not only "talks" but broadcasts its sounds by radio, produced within its own highly active crystals, and powered by its own electricity?

Is there a way to use these strange "talents" of ice . . . could we make a power station using only Polar ice and Arctic winds, waves?

Another discovery, upsetting many theories, is that you can have "un-frozen ice" away down below freezing temperatures; and then this super-cold water has qualities very different to ordinary water . . . it can absorb enormous quantities of heat, for example.

Some experts wonder if this explains some baffling weather changes, in super-cooled clouds.

Only now do we appreciate that ice really does talk to us. When we can learn its languages, many valuable facts will become known.



In the far-off mining-industrial center of Karaganda, the musical director of the Iskorka Kindergarten had this idea of finding 30 or so boys and girls, aged 4 to 6 years, who could really play music. Out of his 260 pupils he found them. In three months of rehearsals they were ready. For a real concert, before an adult audience. "Merry Musicians, Conductor Ivan Bomm". Now all the other musical directors (!) of Karaganda kindergartens are studying Mr. Bomm's methods.



Larisa Mogilevskaya, one of the music teachers at Iskorka Kindergarten, has a lot to do with the orchestra's big success. Nurlan, here, is just five.



You don't even have to be a parent to be captivated by these lovely kids who make wonderful music together.

It's for real . . .

A TOT'S CONCERT ORCHESTRA

"THE MERRY MUSICIANS"



Naturally the leading members of the orchestra are the oldest musicians, like these, who are six. Trouble is, that's as far as they go on their way to regular schools, so "Merry Musicians" changes completely every two years. Don't think this is just another "rhythm band". They learn real compositions, and the guess is that some of them will go for music for serious.



Director Bomm has problems like all conductors, when some smarty musician wants to arrange the score his way. But they tell us that when the kids rehearse, it's real fun. The orchestra not only gives concerts "at home" but gets invited to mine and factory clubs. Always a big hit.



It tells you something about how children live in Socialism, when a talented man like Bomm is music director in a kindergarten. If only he could bring the kids here!

World's lowest cost warmth

Nobody in USSR had to turn down thermostats or dim their lights, this cold winter. Not that they have fuel and power to waste. On the contrary, their housing is warm and bright because **more than 800 of their cities today use economy central-heat-and-power.**

Our economy measures will only save little bits of energy. Real savings are possible only by using **the only possible method: central plants.**

Such plants burn far less fuel, use far less water, cause very little air pollution. They supply entire cities with **heat, hot water, electricity.**

Soon our authorities will wake up to the fact that Socialism has made outstanding use of the Science Revolution in the vital field of heat-and-power.

—Just in Moscow alone, in some 15 years, they shut down 43,000 small (single building) heating plants.

—They were replaced by the very large electricity generating plants, fueled by gas; these outfits produce huge quantities of very hot water.

—Over here, our big generating stations must spend fortunes to cool such by-product water.

—In USSR, in winter, all that hot water is used to supply **free heat** to housing, industry, offices.

Why don't we have it? Our engineers know all about it. In Canada there are a few small-scale "central" heat outfits. But big industry (petroleum and heavy machinery) forces us to operate **millions of little primitive furnaces . . . highly profitable.**

The saving with central heat-and-power is much bigger than what you'd expect. The reasons are rather technical, but it's possible to grasp them. And the big size of central plants isn't their only advantage.



In a "standard" large plant, such as we have in North America, for every \$1 of fuel you get about 40 cents worth of power, losing 60 cents. In the Soviet-type of plant, where the hot water is used, the efficiency goes right on up to **70 cents on \$1 of fuel.**

Last year, the savings thus realized in the Soviet Union amounted to **over 30 million tons of fuel.**

So, in the present 5-Year Plan, they are building **more central heat-and-power plants . . . when next winter's cold weather arrives, they'll be saving fuel at the remarkable rate of 40 million tons yearly.**

Up to now, this system worked well only for fairly large towns and cities. Now, Lithuanian engineers have developed a "compact" plant which can do the same efficient job for places of 2,000 to 30,000 people. One such plant in Salcininkai slashed heating bills in half in its first season.

And the community became totally **smoke free.**

World's lowest cost fuel



Suddenly, Canada and USA are scrambling to dig more coal. Seems just yesterday that our engineers were scorning coal as old-fashioned (compared to oil we got almost for free). Our "ecologists" were forcing coal-fired plants to change over to oil (so long as our air was cleaner, who cared about the standard of living in impoverished Mid-East nations?).

Well, in the meantime, **Soviet coal miners far out-produced the long-time leader, USA.** Score last year was USA 600 million tons, USSR 668 million. And the biggest Soviet mines are just getting near production.

Some USA coal mines are **cutting output . . . machines run on diesel fuel**, which they can't get! Giant Soviet coal outfits run on electricity.

However, a lot more coal is going to be burned in USA from now on, including **the worst high-sulfur coal** that chokes and sometimes kills city people. Doesn't seem to matter any more.

Biggest, and some say best USA mine is the McElroy. It turns out 6,000 tons of coal daily (down from 7,500 due to labor troubles), to generate power. It now costs about 25 million dollars to get such a mine going, and takes about 7 years.

So it's interesting to look at the USSR's best and biggest (underground) mine. It's the Raspadskaya, in the Kuznetsk field.

—This mine will soon be delivering 20,000 tons of coal from below-ground each day.

—About twice the output of the Lenin, up to now biggest in the Soviet Union.

—The new mine you could hardly recognize . . . it is basically different to earlier coal mine complexes, because the mined coal **moves down**, not up.

—From all the coal faces, where **machines** (not men) will get the stuff out of the seams, coal will go steadily down on "spiral stairways".

—At the bottom, the mined coal moves towards a "slant shaft"; this rises gradually up from the depths to the surface, and in it is a very efficient conveyer belt that lifts coal in a steady stream.

You'll guess that it's all very efficient. But western coal men can't wait to see it: Soviet experts say the cost of coal from Raspadskaya is as **low as coal taken from open-cut (surface) mines.**

So many machines, so few miners, that the **labor cost is only one-fifth** that of ordinary mines.

Many new coal mines have come into production in USSR, since World War II. Many more are planned. Coal is abundant enough to last for 1000 years, and in Socialism it is used to conserve petroleum reserves.



Alma-Ata Medical Institute opened its doors in 1936. Only 66 students could pass admission tests. Above you see a few of the 1,250 young Kazakhs who will graduate from that Institute by the time you read this . . . a single class.



Students have Arts Club, and here Medeubai Kurmanov is reading his own translation of Goethe's great poem, "Faust", from original German. Kazakh youth today have many contacts with other nations . . . and other races.



Many students come to the Institute with a love for native Kazakh song-and-dance. Orynbai Torekhanov will soon graduate as surgeon, but by appearances here he could go over to the Alma-Ata Ballet Theatre!



Dr. Sibgatulla Karynbayev was Institute's first post-graduate scholar. Today he is Rector. One of leading specialists of Republic, anatomy authority.



Dr. Raikhan Satnayeva is chief of Hospital Therapy chair. Her students know her as the first Kazakh woman to become professor.



Institute has 17 different sport clubs, but with Kazakh girls it seems basketball is a favorite.

KAZAKH

Non-white visitors to the Kaz Republic get a good feeling - this huge land for ages were in poverty, ignorance. Under by ruling whites as "inferiors Today you could put this entire exhibition, providing that NC inferior. And you don't need t what Kazakhs are doing today sports. Here, see them in a fi of, Medicine.



Just possible you've seen Dr. Ishanbai Karakulov's face in the paper . . . he is one of the most travelled Kazakh specialists. Foreigners are usually amazed to discover his nationality. But there are 30,000 Kazakh medical doctors practising today.



Post-graduate doctor Tamila Ibragimova has her big day: she's defending her medical research thesis for a higher degree, and examiners aren't making things easy.

DOCTORS

Kazakh Soviet Socialist Republic
 keep down. The people of
 nomads, wandering forever
 zarism they were treated
 Then came Socialism.
 Republic up as a living
RACE ON EARTH is
 argue about it. Just see
 in the arts, sciences,
 and they're proud



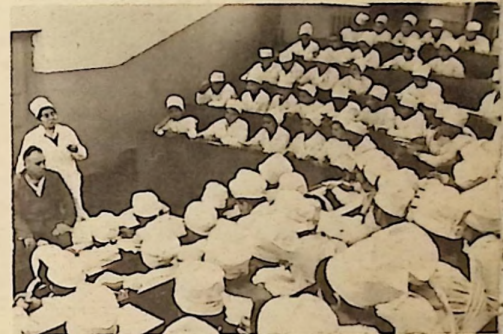
Dr. Karynbayev again. He heads the Institute, and is one of the USSR's outstanding medical men. Few who meet this scholarly MD know that he spent World War II years in the front lines, now is intensely opposed to wars.



Looking at Kazakh students today it is hard to imagine that many of their parents had no schooling. In just one generation these people forever ended their "inferiority".



Worth noting: at this Institute a Russian doctor is now conspicuous! Sorry we don't know the youngster's name . . . but photographer tells us he was at death's door, and all the MD's who worked to save him were proud to be in this last photo before he went home.



Senior students are always most attentive when lecturer can talk to them in living terms of a patient who is being treated.



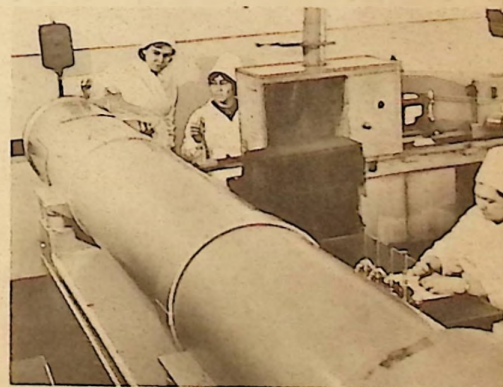
Bekbulat Nurashev won't graduate as dental surgeon for a while yet, but already he has to learn by testing skill on real patients.



Wonderful day! Khalida Orumbayeva is "Doctor" now. Five years of hard study have won her the coveted degree and an official appointment to her first job. What a smile!



Dr. Nurika Ibragimova is guest of honor at class party. These girls have just graduated, and Dr. Ibragimova knew them all: she's top pharmacist.



Advanced research goes on at this Institute, and this is the laboratory studying "trace minerals" in human nutrition. Instrument is called "diffraction spectroscopy".

But you *MUST* eat *FATS!*



- ▷ Just as over here, so in USSR millions are worried about fats in their diet . . . especially people with heart, blood-pressure problems.
- ▷ Now Soviet specialists have come out with **warning**: that fats are absolutely essential for health.
- ▷ This has **long been known** to nutritional scientists; but it has been lost in the recent "**anti-fat fad**" in many countries.
- ▷ Here is NN's summary of USSR's stand, on topic of **vital importance**.

▷ **Fats don't cause heart disease.** Plain evidence you get in USA facts. In last 50 years, consumption of **butter** (blamed as "worst" fat) has **dropped sharply**, while in same period **heart deaths rose sharply**.

What about **cholesterol**? That's a fatty substance found in arteries (heart, too) that become "**plugged**" (hardened). Our doctors got behind the anti-fats fad, to the point where **millions** tried to avoid everything fatty. This was preposterous: because **our bodies make cholesterol** out of non-fat foods . . . indeed, each day you produce **inside you** ten times more cholesterol than you'd eat on a fatty-foods diet.

▷ **Fats are as essential as vitamins.** Because they contain chemicals known as **fatty-acids**. Science proved years ago that such compounds are **essential** to life.

In fact — millions never knew this — for a long time a group of these **essential fatty-acids** was given the name **Vitamin F**. Because, as with other vitamins, if you don't get them in your diet you will surely suffer one or more deficiencies. Without "**Vitamin F**" . . .

✓ **Children can't grow normally**; adults can't have **health metabolism** (utilizing food in body).

✓ Resistance to many diseases is weakened.

✓ There is abnormal drying and **scaliness of the skin**; even eczema; seen in young, middle-aged, and older people living on low-fat diets.

✓ Often, excessive drinking of fluids (leading to **weight gains**, despite cutting "fat calories").

✓ Serious fat deficiency leads to **kidney damage**.

✓ In animals (not confirmed in Man) a lack of essential fats weakens **sexual functions**, reproductive powers.

✓ Finally: lack of fatty-acids **weakens the blood vessels**, so they become less elastic, harder.

(Note: the bio-chemistry of fatty-acids is complex, so we avoid giving their long, difficult names).

Perhaps the **main thing** about these vital constituents of fats is that (unlike cholesterol) **our bodies cannot produce them**, any more than we can produce our own Vitamin C. We must eat them in our foods.

▷ **Are vegetable oils good, animal fats bad for you?** The answer we've been given for 20 years or so (first by misguided nutritionists, then by doctors) is nothing short of **tragic**. It came from the utterly unscientific guess that vegetable oils wouldn't "**harden**" the arteries, while "**hard**" animal fats would.

The **truth?** Vegetable oils and animal fats contain **different essential fatty-acids**, all of which are what the name says . . . **essential** to life, health.

The widespread anti-fats fad also led to the tragic suppression of a vital nutritional fact: **essential fatty-acids** found in **animal fats** have the power to **lower cholesterol** levels in the blood. So eliminating animal fats doesn't benefit, and probably harms, the arteries of those who have "**hardening**" problems.

To top that off . . . for **many people** essential fatty-acids in animal fats are **far better assimilated** into the body tissues that those eaten in vegetable fats.

▷ What about "**Vitamin Appetite**", needed for digestion? Of course there is no such vitamin. But as you have seen in a number of NN Reports, Soviet nutritional scientists have long insisted that **enjoying your food is essential** for metabolism.

This is where **animal fats** come in. Millions today cook with vegetable fats, rather than butter or pork fat. Results? **Tasteless food**. Indeed, there is a shocking TV commercial that actually boasts about a vegetable cooking oil that **gives food no taste!**

Animal fats unquestionably add more appetizing taste to foods, than vegetable oils do. Now there is another grim fact to consider: high temperature (cooking) of **vegetable oils** can produce chemicals known to **cause cancer**. Soon, no doubt, doctors will swing to the other extreme and advise us to stay clear of vegetable oils.

Not so in USSR. Their research proves that we need **both sources** of essential fatty acids, animal and vegetable, in a **sensibly mixed, varied diet**.

▷ **Surprise: pork fat is the most nutritious.** In spite of unscientific religious (Moslem, Jewish) "laws" prohibiting pork, nutritional studies in USSR show that **pork fat has the best, naturally proportioned combination of fatty-acids**, for superior nutrition.

They rate it much higher than butter-fat, which, by the way, has 3 times more cholesterol than pork fat. To say nothing of the **higher price** here! Soviet specialists actually recommend **pork** for middle-aged and older people (excepting **only** those who have certain diseases, of the liver, for example).

▷ **They don't advise anyone to eat a "fatty" diet.** In fact, Soviet doctors are very definite: they say we should make sure of **3 to 4 ounces of fat daily**, and 1 ounce should be vegetable oils, as in salads or in margarine.

Exceeding that amount of fat is almost certain to lead to **weight-gains**. But eating **less fat** every day will just as certainly lead to the deficiencies mentioned earlier in this report.

Plenty of Vitamin C is important. For details of the Soviet findings here, see our report #868 (15 cents).

Many Readers will recall NN's all-time best-selling Report, by famed Director of USSR Institute of Nutrition, **Dr. Alexei Pokrovsky** (#837, 15 cents), titled "**Enjoy Food and Stay Healthy**". It contains the potent advice: "**Evaluating the positive and negative qualities of food products, we would like to express our protest against all prohibitions and taboos.**"

Their latest findings about fats fully support that nutritional principle long followed in Soviet clinics.

In fairness to many doctors and nutritionists in **our part of the world** — those who have never fallen for the anti-fats fad or the unscientific attack on animal fats — we must also remind Readers that NN's Report on this problem, "**Why Sensible Eating is Safest**" (#757, 15 cents) years ago cautioned against "**taboo**" diets.

Fats are not only delicious and safe, but **essential**.



Who...

NN's 25th ANNIVERSARY TOUR is open to all subscribers, and places will be filled on "first come" basis.

What...

Tour will be really SPECIAL, lasting approximately three weeks, from Montreal, via Aeroflot and Air Canada.

Where...

Major Soviet cities. All by Aeroflot. Black Sea resort. Everything included, all with FIRST CLASS accomodation.

When...

LEAVE THIRD WEEK IN SEPTEMBER. Exact date later. This is rated as the finest time for travel in Soviet Union.

Sorry, we can't quote you final price yet. Will be under \$1000. That will include AIR FARE Montreal-Moscow-return; air fares to all points inside USSR; First Class hotel accomodation and all MEALS; motor tours inside Soviet cities, with guides...EVERYTHING. Figure it out yourself (three whole weeks, all expenses paid), and you'll see that under \$1000 is a travel bargain.

Send for this

WITHOUT DELAY, write "NN" asking for DETAILS and application form. We will then send you complete information. Do NOT send any deposit at this time!

SPECIAL

Several lucky "NN" Readers will go on our Tour FOR FREE, as winners of the Anniversary Subscription Campaign. Still LOTS of time for you to enter. If you want details, write NOW for information.



PLEASE HURRY! Tour will fill up fast. In fairness it will be...first come, first served.

Something in it for you.

YOU NEED THE ANSWERS TO THE WORST OF OUR PROBLEMS...EXPERTS ARE AFRAID TO FACE THE TRUTH...IT'S ALL HERE...SOLD OUT 3 TIMES, NOW IN 4TH PRINTING....



INFLATION into DEPRESSION



- The burning question that has Western world finance reeling from crisis to crisis.
- Will continued inflation keep Capitalism booming, or bring on a disastrous bust?
- You've read countless opinions of economists, politicians, here in our system.
- This exclusive NN Report for the first time presents the views of Soviet experts.



THIS you can use to INFLUENCE OTHERS. Does the job because it is NOT "propaganda". Proves, with FACTS, from capitalist authorities themselves, that our governments now have "a tiger by the tail" ... INFLATION. People NEED this to save themselves from being tricked into PERSONAL RUIN, expecting the boom to keep booming. Send it around as far and wide as you can. That is practical, because ...



"Inflation into Depression" is financed by The Charlotte Carter Memorial Fund. So you may circulate it widely at very low cost ... priced to cover mailing only.

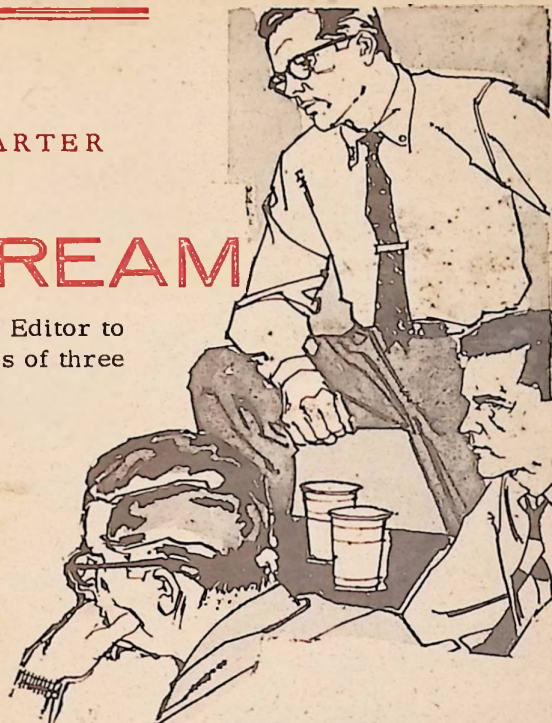
"INFLATION into DEPRESSION" - 2-for-10 cents - 20-for-60 cents - 100-for-\$2.00

THE END OF CAPITALISM'S DREAM

by DYSON CARTER

NOVOSTI (NEWS) PRESS AGENCY in Moscow asked NN's Editor to give his views on the "Energy Crisis". He wrote a series of three articles that were widely circulated in the Soviet Union. Carter's views aroused much comment. His facts and conclusions are important for us in Canada (and USA), so Northern Book House has published all three articles in one Report: "The End of Capitalism's Dream".

You will find this to be one of the most challenging reports we've issued. Mainly because Carter proves that the "Energy Crisis" is only a part of the GENERAL CRISIS of our capitalist system, which is no longer able to maintain the Dream of Affluence.



NOT FOR SALE!

When Northern Book House asked Dyson Carter for publishing rights, he agreed, subject to ONE CONDITION...the Report is NOT for sale. You can get it ONLY by sending in ONE NEW SUB or RENEWAL to "NN", plus 25¢ mailing cost. (All who have sent Subs for NN's Anniversary Drive can get the Report for 25¢). To make sure YOU GET YOURS...use coupon on PAGE-25, NOW!



Why be satisfied with hand-outs when you can take over the system?

The way you hear them tell it today, you'd think all we want is a few more bucks to pay their higher prices. Enough unemployment insurance to buy bread and hamburger. Pensions just to keep body and soul alive. Welfare so the poor won't annoy the rich by begging. Legal drugs for youth to prevent them from waking up.

You know who's not satisfied with such economic slops?

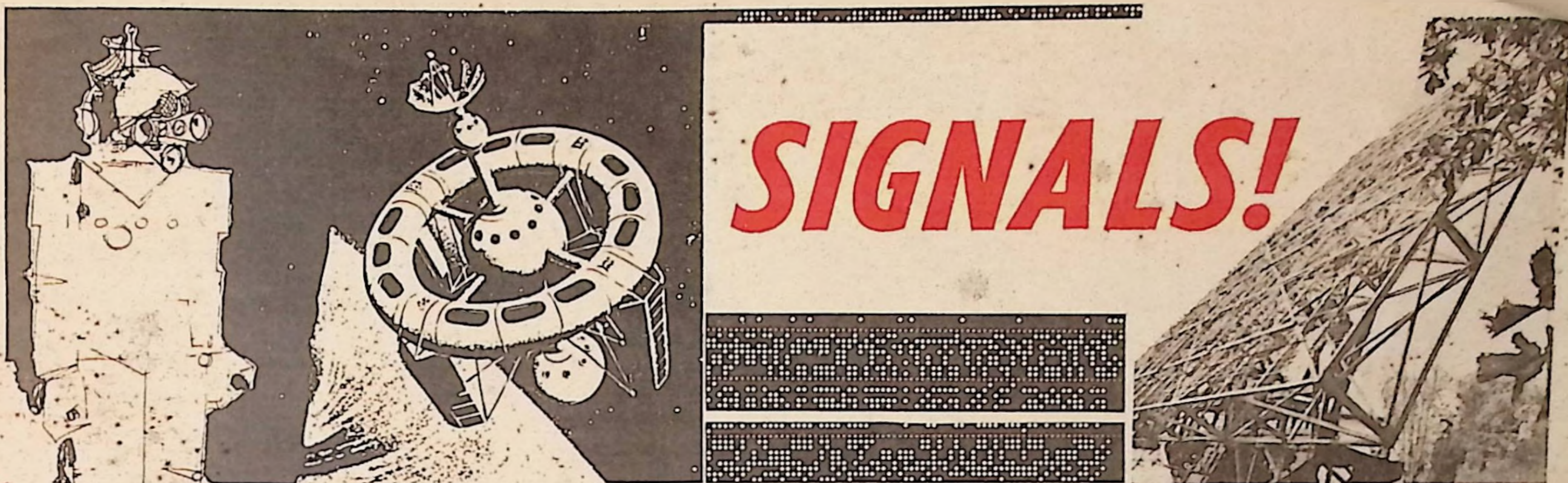
The working class. Multiplied 50 times since Karl Marx forecast the Big Take-Over. Grown by hundreds of millions since Lenin showed the bosses the way out of history.

WORKER POWER! This is how you'll quit dreaming and go after your future.

- Get rid of all the confusion and propaganda the ruling class stuffs us with.
- Lift your mind up off its knees, so you can respect yourself and the people.
- This is the book that **PROVES** it, backs you up with **WORLD** of FACTS.

Why be satisfied with less than the world? It belongs to you!

"WORKER POWER"—C. and D. Carter—\$2 - 3-for-\$5.



One morning you could wake up to the biggest news Earth has ever had

If we could get in touch with a Space Civilization that is a thousand years in advance of ours, all our ideas of progress would be revolutionized. You've seen this often discussed here in NN, because Soviet scientists are in the forefront of this work, and our last report appeared just two months ago.

But now . . . from USSR comes the first word ever that **very promising signals have been picked up.**

—Using various forms of "listening" devices (described earlier in NN) they have repeatedly tuned in on radio waves of a kind never before recorded.

—This climaxes 3 years of covering all possible "broadcasts" from Space, in the most promising wave bands . . . centimeter and decimeter.

Actually, the problem is not to pick up any one kind of signal, but to **sift out** the countless radio waves coming from all over the Universe — radio "noise", or what we usually call **static.**

Method used in USSR is to have receivers in several places, a thousand or more miles apart, and see if they pick up some **persistent signal** (or one regularly repeated) different from the meaningless, natural noise.

Many things in our Universe (for example, lightning flashes on Earth) produce powerful radio waves. Some have a certain regularity (pulses). Only if you can screen that kind of "broadcast" out can you try to pick up signals that are **not natural**, but deliberately sent out by intelligent Beings.

Soviet receivers are in Gorky, Ussuriisk, Murmansk, the Crimea, Pamirs, Caucasus and Kamchatka. For technical reasons, listening in places that far apart helps greatly to **hear "through" radio noise.**

Contrary to what we may think, some receivers have small aerials, just two or three feet high. But the associated equipment is elaborate, based on the very latest developments in electronics.

One view (not the only one) in USSR is that signals from Beings are likely to be **not very frequent, but regular, and repeated.**

The group of scientists working under Dr. Nikolai Kardashev, noted Soviet astronomer-physicist, has scored **the first success** in repeatedly picking up signals that seem to have the characteristics of "broadcasts" by thinking Beings.

The big surprise, however, comes from precise measurements aimed at finding out **where** those signals originate. Not from some infinitely distant point in Space, but from **somewhere inside our own solar system!**

Where? The equipment so far used cannot give the answer. Indeed, hardly anyone expected signals from anywhere so close to our Earth.

But the signals keep on coming. Regularly. With a strict "periodicity". This practically rules out any natural object as the transmitter.

Naturally, scientists everywhere are excited. First, because this is no casual experiment. Dr. Kardashev and his colleagues have been studying the mystifying signals for **six months.**

Second, because we know enough about our solar system to doubt that any Beings exist in it, anywhere near as advanced as we here on Earth. So?

So the signals must be coming from **Something sent into our solar system**, with or without Somebody on board.

Incidentally, another team, under Dr. Vsevelod Troitsky, has also picked up persistent, regular signals. But these are on different wave-lengths, and they "fade" regularly, in a way which indicates that they are from a natural source (probably Sun's rays acting on Earth's magnetic field).

But you can still be sceptical of Dr. Kardashev's receptions. True, nothing like them has ever been studied before. But still they could be from some natural source so far unknown to scientists.

Let's pause here to raise a problem you saw previously discussed in NN—if Kardashev really is picking up signals, from some kind of space-craft circling our Sun, is it **possible** that any Beings are on board? Or, must it be a robot of some kind, because Life as we know it could hardly travel for **thousands, millions of years**, from another solar system in our Universe.

—Most Soviet scientists have long believed that any "space probe" coming our way would be a robot.

—Consider the nearest possible world, from around Barnard's star . . . it's 35 million million miles from Earth, and space-men would need **200 years** to reach us.

—Assuming certain advanced forms of space-travel, the time might be cut to 100 years.

What kind of Beings would go for such a trip? Isn't it more likely that they'd send a **robot-probe?**

Such a probe, very far advanced over the famous Soviet Moonmobiles, which were very successful, could gather and send back a wealth of information about Earth.

And Soviet scientists don't see why we should limit possible "visitors" to the nearest solar system (Barnard's star). They have figured, using calculations too involved for NN) that **at least ten civilizations** are "within reach" of Earth . . . and all of them at least **ten times older than ours.**

That is, the Beings inhabiting such worlds would have been developing their civilizations for 100,000 years at least, so they are incomparably farther advanced than we humans are.

Therefore, latest studies show that **contacting such superior Beings is entirely feasible, scientifically.**

And if, as the surprising new Soviet results seem to indicate, something sent out by a Space Intelligence has come **right inside our solar system**, then communications may be coming far sooner than anyone thought before.

We aren't transmitting into Space. So maybe the probe **doesn't know we're here.** And if it finds out . . . ?



We're only now beginning to take public transport seriously, but ever since Socialism began they couldn't see personal cars for the world's people. Today Soviet buses rate very well, and they're improving them fast. Nice to know that its young engineers (girls included) who are in the front, as here in world's biggest plant (in Lvov).



Here's Pavel Popov. You'll be hearing from him again. One of the millions of Soviet boys who play hockey, but Pavel is very promising as goalie of the Chaika School team (our in Kuibyshev). Gold Puck Club in USSR's national circuit bringing them up young.



No pilots being laid off in USSR. Ivan Sharov has been flying over Siberia for 40 years (he's now 60 and he's still fit). Older pilots do get transferred from big passenger routes, but Socialism's aviation in general develops so fast that men like Sharov can keep flying, far past retirement age if they wish.



Begali Aliyev left his 100th birthday party to go hunting. He lives in Azerbaijan village of Mardakyan. Like so many of their centenarians, Bekali has surprising health.

PEOPLE in ACTION in SOCIALISM



Irakly Abashidze, of Soviet Georgia, long a beloved poet at home, has now won India's Jawaharlal Nehru Prize, for book of poetry he wrote in India, "On Banks of the Ganges". Abashidze is Member of Supreme Soviet (Parliament) of USSR. But at home he and his wife like best of all to have people drop in.



Two Eskimo engineers, P. Pak and T. Sidorov, on shift at the big Orbita Space TV center in their native Yakutia. There are now many of these stations in USSR. They receive far-off programs from relay-stations flying in orbit high above Earth. Maybe these controllers have gone to Cuba to set up new Orbita station there.



The problem being earnestly discussed here is one that bothers the youth everywhere in Socialism: which job to take? Here boys and girls from one of the many Moscow vocational schools have come to a consultation center, where an expert can give them straight words about thousands of waiting jobs. People take work very seriously in Socialism, so it's important to make an intelligent choice of occupation when young. One question often asked: "In this job, what are the facilities for learning the next higher-up skill?"

New look at Mao's mental problems

Comes another "revolution" in China

In 1963 NN showed why Mao's policies revealed symptoms of insanity. Sad to say, new trends support that diagnosis.

News from Peking disturbs all observers, from the West and from socialist countries. Starting about six months ago, Mao hinted at new "power struggles". Any time now, real violence may erupt.

Oddly, Maoists say they are fighting two enemies: One is **Confucious**, dead 2500 years. The other is **Lin Piao**, Mao's chosen "heir" up to a couple years ago.

This gives no cause for smiling. Latest developments inside China are alarming to all friends of that great country. What's happening is the latest expression of **serious contradictions** in Mao's "thoughts".

Here are six . . .

1. Mao still claims that the People's Republic of China is a socialist country. But after 25 years of Maoist rule, you can find **few evidences of any goals of Socialism having been achieved.**

2. On all continents Mao called loudly for support for people's liberation movements. But when the fascist junta overthrew the progressive Chile government, Mao **immediately recognized that regime**, and relations with the junta are now most cordial.

3. Once Maoism held that Peaceful Coexistence was basic in China's foreign policy. But China continues to strive for military conflicts, **opposing any peaceful settlement in Mid-East**, as it did earlier in the India-Pakistan war and in Vietnam. Mao is against USSR-USA detente, but vigorously promotes China-USA detente.

4. Chou En-lai admits that China is **extremely backward**; but Mao assures Asians that "present-day China is the morrow of the whole world."

5. "Great socialist China stands towering in its gigantic stature", says "Jenmin jihpao"; then it quotes Mao, forecasting "**complete disorder in the Celestial Kingdom**" now and every seven years.

6. China's radio and press violently **attacks imperialism**, but Mao has China fully mobilized for war against USSR, while pushing for close relations with USA.

For those who have even a general knowledge of psychiatry, such **contrary attitudes** are disturbing enough. But the main features of Mao's "world policy" give ample warning of troubles ahead.

Here as six of his current approaches . . .

1. Mao emphatically promotes the ancient "Great-Han" principle that China is destined to be the "**the centre of the entire world**" (Sino-centrism).

2. Peking maps showing "partial" claims of China cover lands inhabited by 2,000 million people, **more than half of Earth's population.**

3. From Nebuchadnezzar to Genghis Khan, Napoleon to Hitler, many "empire builders" have visioned the world at their feet; but Mao is unique, in that he has such a vision as **head of a "socialist" nation.**

4. Always predicting a world nuclear war, Mao seems oblivious of the fact that Hitler's war exterminated 50 million human beings; and another world war would largely wipe out Mankind.

5. All previous "empire builders" were, in fact, **very powerful** (Hitler had all Europe's might), but Mao leads **the most primitive** of all major countries, and his ambitions are thus paper illusions.

6. In 1965 Mao told Edgar Snow that much of the world would be wiped out in nuclear war, but China would be able to "**start again**"; in fact he told this to

the Italian writer Guerriero ("Epoca Magazine") two years before Snow got him to repeat that "**program**".

Today **every world leader** other than Mao realizes that what our world must have now is **Peace**, and that any "program" aimed at nuclear war is . . . **insanity.**

This is, of course, the basic question everyone must put to China's leader. But this year **some new elements** have been added to the symptoms of Mao-ism.

Half jokingly, the press reported that Mao's papers have launched still another furious attack on USSR and its socialist allies . . . this time because Socialism widely popularizes the great classical music works of Beethoven, Schubert, Bach, etc. These things, you see, are "**capitalist**", and revolutionary people need only "**proletarian**" works (like the silly operatic hymn to Mao, "Gray-Haired Girl").

This first took place 7 years ago in the "Cultural Revolution", when recordings of good music were smashed at street meetings, to the cheers of Mao-ist youth. And in the name of "Leninism".

Everyone knows how Lenin (and Marx, Engels, before him) revered classical music, and ridiculed efforts to find "politics" in such art works.

However, **Mao cannot hurt music**; what he can do is damage China severely. The new anti-Confucious drive proves that vividly.

Contrary to what our papers say, this drive **directly supports** Mao's newest "revolution". The facts . . .

- Confucianism was overthrown by "Legism" headed by Emperor Chin Shinh-huang.

- Legists **buried alive** some 460 Confucian scholars.

- Their policy: "To rule people by merciful methods is like trying to drive a balky horse without a whip".

- Mao's press **praises Legists**, even their burying alive . . . "just, revolutionary measure".

- Task is "to rise up and smash the Confucians of today", obviously the **opponents of Mao-ism.**

Will the newest "revolution" follow this "political route" to another mass blood-bath like those of the "Cultural Revolution"?

In April 1963 NN described Mao's talk of a **desirable world nuclear war** as "criminal insanity". On the basis of four years of Maoist action, NN repeated that charge, with emphasis, in February 1967.

Since then, many of our Readers who, at one time, believed Mao would return to Socialism, have sadly **facd reality**, realizing that Peking's leaders have put themselves outside world progressive forces.

Regrettably, a few **former progressives** have become the loudest worshippers of Mao in Canada and USA.

To them, profound sympathy. Their inability to cope with world realities has led them to **incurable political corruption**. . . they stand with Solzhenitsyn the Hitler-lover, and with the Chile junta, butchers of the people (including even Mao-ists!).

But it is the great Chinese people for whom we should reserve our deepest sympathies. They are afflicted today with **criminally insane leaders**, about to take off on yet another ghastly parody of revolution.

How much can the Chinese take?

How long before they rejoin humanity?



How the Science Revolution adds power to the Workers



The onrushing revolution brought about by Science is profoundly changing all aspects of society. **Greatest of these effects**, for the people here in Capitalism, is the new strength being given to our working-class.

- In advanced countries of West, in 70 years the number of workers leaped from 80 to 240 millions.

- The faster Science develops in any capitalist nation, the faster is the growth of working-class.

- Science reduces manual labor, but far more rapidly multiplies number required for brain work.

- You should not exaggerate the "elimination" of manual work (as some professors do); actually, even in Canada and USA (where automation is widespread) manual labor still plays key role in industry.

However, what you see most strikingly is the way Science **breaks down sharp difference** between muscle and brain work. Today tens of millions work "with their hands" yet must also **think** on the job. These "technical workers" are the fastest growing section of Labor.

► As more Science is used in production workers must have more education. In earlier times, educated people either became capitalists themselves (hiring laborers) or took up "professions" like medicine, law, engineering.

► But as Science Revolution arrived, Capitalism couldn't expand by hiring more hand-labor . . . turned instead to "intensified" labor, or educated workers.

—Workers remained workers: they are people who can live only on the wages paid them by employers.

You see this dramatically in so-called "services". Once, service workers were "on their own". Today, 8-out-of-10 in such fields are working for wages . . . and include millions of former professionals (especially engineers, scientists, lawyers, and on a rapidly growing scale doctors also).

What about their incomes?

Many do get high wages. Doesn't matter. They remain workers. They can get by only if capitalists pay them. Right now, in USA, thousands of highest-paid workers — airline pilots — are with the jobless.

Yes, some top lawyers, scientists, doctors, etc., get such high pay, and work so closely with financiers, that they have nothing in common with other wage-earners. But they are so few they don't count.

Millions of high-pay men and women, on the contrary, draw closer to unionized labor every year . . . and millions have joined unions.

Good example: teachers. Only a few years ago they sneered at unions; they had "social status". But as higher schools grew swiftly, wages lagged behind . . . teachers had to organize. Now many are militant, helping "low status" workers to win the organizing battle.

Let's avoid going overboard. A lot of "intellectual" workers still look down on industrial unionists. But what's vital is not the current attitude of any particular group, but . . . which way are the millions brain-workers moving?

They're moving towards the LEFT. And Science is speeding them.

—High pay and clean hands still leave a worker under the boss, at the mercy of Capitalism.

—But Science increases the need for highly skilled workers, thus adding to the actual power such workers have within the system.

—But their work becomes more intense, difficult, wearying; that builds worker resentment.

—Unemployment and inflation are wearing down brain-workers' "faith" in Capitalism as a system.

—Worsened by growing gap between super-rich and average person.

SCIENCE REVOLUTION RAISES NEW WORKER DEMANDS

As the complexity, and importance of work increases, brain workers realize that their collective toil approaches, in social significance, the work of "management" itself.

This leads them past their own immediate interests, to question what effects industry has upon all other people, on society in general, for good or for bad.

In Capitalism, far more often than not these effects (the result of the profit motive) are indeed bad. so that millions of intelligent workers question "what goes on".

Result: millions whose jobs were created by the Science Revolution begin to raise social demands not limited to "old" demands relating to personal pay and security.

You see this vividly right now in national political struggles of such highly skilled workers as the railwaymen and miners of Britain . . . directly against the government.

This is becoming a world-wide trend, as Capitalism is compelled to continually raise the educational

level of workers . . . and thus give them sharper political insight.

One result is the growing Union demand (especially in Italy and France) for worker control of management, including operation of industries for society rather than profit.

However, the "intellectual" workers always rely upon the less skilled but more disciplined industrial workers as the main reliable force in advancing the new demands.

Over and above all this, the Science Revolution is bringing to millions of workers in Capitalism knowledge of how industry (and Science) is developed in the new Socialist System . . . leading them to appreciate the key fact about Socialism, that it is worker control of society.

Thus, in essence, the Science Revolution merges with the Socialism Revolution. all through our system.

(For full study of Worker Control see "WORKER POWER", by C. and D. Carter, described on Page-18).



Let's respect other people's views

"Enclosed page from magazine 'Canada and the World' gives same old line turned out (against USSR) for 50 years. Note 'Guns Before Butter' slander." H.M.
Reply: This is really a laugh, because it's here (Canada and USA) where people eat less butter than ever in 100 years, while in USSR, they now consume far more butter than we do. Going to beat us in cars, next? Hope not!

"I wish your printer's container of orange colored ink would spring a leak and quietly pass away. I would also not want pages of Readers opinions, feel strongly against that." W.C.S.
Editor: How's about that? Tell us.

"I say NN is a fine journalistic job, a cheerful, inspiring monthly visitor." A.C.

"Regret that some people I've known for 30 years are now anti-Soviet and adverse to Peace and Detente. There is still too much political ignorance confronting us today, nevertheless I meet quite a few interesting people who are advancing their views. Wish I could do more personally." C.H.B.

"Just received December NN and it's so good it urged me to send in this Sub for my friend. I think he needs straightening out on current events. Best regards." C.E.N.

"After reading your publication I've decided to devote my life to speaking and writing to convince the American people to assist the Red Chinese to over-run the Soviet Union: We, of the National American Party will then be in a position to remove the traitors with their 'detente' out of our White House, and then, unhindered, we'll remove all commies from the face of the earth." H.S.M.

Note: Does anyone know what is this "National American Party"? Interesting to see how H.S.M. views the present regime in China.

"Renewing our Sub to NN we'd like to commend you all on this magazine. Your opinions are shared by our entire family, and we'd like to thank you for telling it like it is." W.J.S.

"Please send 30 more copies of leaflet 'The Ghosts Behind Solzhenitsyn'. Will distribute them." I.R.

"Breakdown of economic system in U.S. will drag Canada down with it. We are so dependent on that country that we can hardly escape. It took over a thousand years to complete 'the decline and fall of the Roman Empire' but the same thing is happening south of our border in a couple hundred years. The prediction a Druid priest made to the British Warrior Queen long ago could apply here: 'Rome shall perish, mark that word in the blood she has spilt; shall perish hated and abhorred, deep in ruin and guilt.' F.W.J.

"Will you see if some friend of yours in USSR can get word to the disgusting Solzhenitsyn that the decent people in this country are sick to death of him and have even come to hate him . . . I have a friend, a Pole, who spent 3 years in Soviet camps (after war) at same time Solzhenitsyn did, and he says that Solzhenitsyn is a damned liar. He told me how well he was treated, even though the work was hard." E.S.

"When I visited the USSR I found that 75 percent of what we read in the daily press about that country is absolutely wrong. Keep up your good work; we need NN." W.O.P.

"When I was in Samarkand (Uzbekistan) some years ago I heard Jewish people there explain how they and countless others were taken from the grasp of the Nazi invaders. I heard that 2,000,000 Jews were thus saved. But friends are sceptical, and I have no hard data. January NN mentions the 2,000,000 figure of Jews moved to safety. Where can I find proof of this event, so little publicized?" A.B.

Reply: We thought this was widely publicized in early years of United Nations. You might consult the UNO, or the Soviet delegation to UNO. The figure is known everywhere in USSR, and accounts for that country's Jewish population today.

"Papers widely print an 'appeal' from Mary V. Beck, born in USA, who visited Ukraine 10 years ago, now attacks USSR viciously. She heads so-called 'Ukrainian Information Bureau' in Detroit. One piece of her 'information' is that Ukrainian is not spoken in public in Ukraine, and Ukrainian books and papers are almost non-existent, over there. I doubt this, but I don't have any facts." M.S.

Reply: Every visitor to Ukraine hears the big majority of people there speaking Ukrainian. As for literature: under Czarism (which the Beck woman yearns for), from 1900 to 1917 about a dozen books were published, yearly, in Ukrainian, and they had only one newspaper in their own language. Last year (UNO figures) Ukrainians (in USSR) published over 7,000 books, 128,000,000 copies, and read 2,082 papers in Ukrainian. Alas, facts are of no interest to people like Beck.

"No doubt some NN Readers would like to know that at the end of 1972, 2000 top economists of USA predicted rosily that Wall Street would finish 1973 at a level of about 1060. What really happened was that it slumped badly to a few points over 800. Man, they must have lost their bosses a bundle." T.S.

"Across Canada there is pressure from priests and politicians to stir up Ukrainians into demanding the splitting of Ukraine from USSR. I'd like NN to put out a pamphlet or even a small book of pictures and facts, showing conditions in Ukraine in the past, before Socialism. Including a lineup of serfs carrying mugs for a ration of borsht. Can you do this?" H.C.B.

"I would like a collection of NN's pages showing what the Ukraine is like today." M.L.

Note: Several others suggest such a publication. We'd welcome your opinion of the idea. Please write!

"Must tell you how much my husband and I look forward to receiving NN each month. Don't know how we got along without it for so long. Enclosed is payment for 2 new Subs." L.D.

"Please send 50 copies of December NN and greatly oblige." W.H.

"I found January NN, especially pages 3 and 4, most inspiring. Please send us the extra copies ordered. We feel we must do more promoting than we have up to now." J.N.L.

"If each NN subscriber would send in only four new subscriptions, we would achieve a 400 percent increase in circulation for the only magazine in North America that tells it like it is in USSR. It's the only magazine capable of changing the thinking of our continent. I have found new readers in 4 states. One is an Arab student. He was so impressed that he immediately convinced 9 more Arab students to subscribe." P.H.

"I am a professional person, but unable to find employment for three years. Since I can no longer live a useful life here, I would like to do so elsewhere, namely in the USSR. Can you tell me how I can get myself and family there?" F.M.D.

Reply: Only the Embassy of USSR can answer that. NN does not know of people from this part of the world getting employment in the Soviet Union.

"I guess you saw this letter to 'Toronto Star' by the Canadian poet Acorn, exposing Solzhenitsyn. But maybe some Readers would welcome Acorn's point that for a very sick man (cancer), Solzhenitsyn did pretty well in those terrible 'camps' he writes about. The doctors there saved his life. That's cruelty for you!" K.D.C.

Note: NN would like to alert Readers to the fact that Solzhenitsyn was not cured; he has had several operations since; he is now very ill; when he dies, our editors will almost certainly accuse the Soviet authorities of murdering him. But some editors might welcome a letter cautioning them about this.

News shows their problems all arise from continued growth

750,000 DOCTORS STAFF USSR'S MEDICARE, and now all must attend "refresher" courses. Already, over 300,000 MD's have been to one center, Moscow Medical Institute, for training to bring them up-to-date in general or specialist practice. Service is free, and doctors are paid travel expenses plus their average regular income.

NEW "RASPADSKAYA". MINE, in Southern Siberia, opened its first section, with output of 800,000 tons of coal yearly. Much more is scheduled, to reach 6 million tons capacity. Every day, a "train" of 300 60-ton trucks will rumble up from the underground railways of this enormous mine.

BIOLOGISTS WORKING IN BLACK SEA have set up experimental "farm" to grow oysters and other valuable shell-fish. But results far exceeded expectations. On basis of present "crop", they find they could harvest about 77 million tons of high-protein sea food, on a surface (small for the sea) of only 500 square miles. And 77 millions tons is the total fish catch of entire world today.

PEOPLE OF FINLAND FELT GOOD this winter, when a big new gas pipe-line, built in record time by Soviet construction men, was completed and began pouring the invisible fuel into Finland's homes and industries. By coincidence, opening of the line took place just as headlines hammered about grim fuel crisis in Europe.

SOME SOVIET PEOPLE LAUGHED, others felt sore, and thanks to our "free" press we couldn't react at all . . . when news came from Belgium that the terrible "Soviet rocket", supposedly in the hands of Arab "terrorists", was actually a USA rocket stolen, apparently, by criminals. Sensational mobilization of British troops and tanks, shown everywhere on TV, was a farce staged by Prime Minister Heath, to show striking British workers how fast he could roll out the guns, Chile Junta fashion. Didn't work, in spite of intensive Israeli propaganda attacking "latest Arab terrorism".

A NEW YEAR GIFT OF 1,300 MILLION DOLLARS went to pensioners of USSR. Biggest pension boost in nation's history was divided among retired people, the disabled, and families of war vets. Most minimum pension rates for all types of people were raised.

THOUSANDS OF WESTERN BUSINESS MEN AND EXPERTS, now regularly visiting USSR, are just beginning to appreciate the fact that 1973 was a remarkable year for Socialism. Record high levels of production were reached, and it's no secret that the advances were a surprise even to Soviet planners. But two basic facts are deepening the impression made on foreign observers. First, the widely publicized (in the West) "problems" of USSR, last year, were exactly what Moscow said . . . difficulties arising from the worst agricultural weather of a century plus an extremely severe winter which strained transport, fuel, industry. Second, the sweeping advances made by Socialism in 1973 came at the worst possible moment for Capitalism . . . as the General Crisis turned for the worse.

NEW KIND OF "BLOSSOMING-DESERT" is appearing in Karakum region of Turkmenia. Really it is a kind of enormous natural "hydroponics" system . . . growing crops without soil. By spraying sands of desert with exactly mixed liquid fertilizers, and no irrigation water in usual sense, regular field crops are stimulated to send roots down as deep as four to five feet (1). Result: very high yields from sun-loving plants. Over 90 bushels corn per acre and similar crops of alfalfa and sorghum. Now 500-acre plots are being set up. Bonus: crops appear to stabilize sands, end drifting.

ENTIRE SOVIET PEOPLE were deeply moved by tribute paid, on New Year's, by Central Committee of Communist Party. "Everything we have achieved to this day," the Party leadership told the nation, "and will achieve tomorrow, depends upon all of us, on the ability of every Soviet man and woman to work creatively, on the high degree of their political consciousness, their skills, and their sense of responsibility and discipline".

FOR FIRST TIME IN WORLD, the air that man breathes is being studied in a kind of scientific blitzkrieg attack. Place chosen in Zaporozhye, densely industrialized region of Ukraine. Here 200 scientists are mobilized to probe every detail of the atmosphere at all times. They'll use every known device, including airplanes, airships, piloted balloons, radio-sondes, rockets, laser beams and many truck-mounted laboratories. Hundreds of different polluting substances will be traced, variations noted. All with aim of working out practical anti-pollution measures.

EXCLUSIVE N-N FEATURE

EVEN SOVIET PEOPLE WERE SURPRISED at dramatic proof that world's biggest motor city, on Kama River, is fast taking shape. Statistics office issued "dry" facts that up to August 1973 people already living in the new city celebrated 5,408 marriages, and maternity hospitals recorded 10,202 babies born there.

AGAIN SOVIET WORKERS OVER-TOOK USA, this time in production of fertilizers. In a world that's acutely short of food-crops, fertilizers to produce them, and fuel to make fertilizers, it is highly significant that USSR has surged ahead from fifth place in world to top output of long-time leader, USA. What's making the experts think is remarkable fact: since 1955 USA raised its huge fertilizer output 300 percent, but had to take second place to Socialism since USSR's output, in same period, soared 900 percent. And their Plan calls for biggest growth yet.

BEAUTIFUL MID-EAST ANTELOPE, the Saiga, which has transparent horns shaped like a lyre, is forever safe. At time of Soviet Revolution scientists said the Saiga was doomed, due to ruthless hunting. Lenin decreed that Island of Barsakelmes, in Aral Sea, provide a sanctuary for these animals. They prospered. Now thrive on Kazakh prairies and in Caucasus. At last count they exceeded . . . two millions!

MASS MEETINGS ACROSS USSR hailed new deal between Soviet Union and Republic of South Vietnam, the liberated part of that country. USSR will supply large volume of industrial and agricultural needs, as well as foods, medicines. Aim is to help Vietnamese in South strengthen cause of peace and prosperity in Asia.

FIFTY MILLION SOVIET PEOPLE, one in every five citizens, is now active in sports. There's a trained coach to every 250 sports enthusiasts, and volunteer coaches total 3 million. USSR now has 48 higher schools and institutes teaching sports, athletics, fitness.

FIRST TIME IN WORLD, up in city of Kostroma (once known only for its linens), engineers are preparing to install two electric power generator sets, each of 1,200,000 kilowatts output. Station already is one of world's biggest steam-electrics, with 8 units of 300,000 KW each.

FIRST TIME IN WORLD, in farthest North Taimyr region, Eskimo reindeer breeders are to intensify production by having natural grazing areas sprayed with top-dressing fertilizer, by aircraft. Goal: production worth 5 million dollars yearly, before 1980.

PEOPLE OF SOCIALIST HUNGARY now do more business with USSR than great USA does. Annual trade has exceeded 2,400,000,000 dollars, with most of it now in industrial goods. Almost every center in USSR is served by famous Icarus bus, made in Hungary and much in demand in Europe.

HOW ATOMIC POWER SAVES MONEY vividly shown in Shevchenko, city on Caspian. Formerly, fresh water had to be brought in by ship, at cost of some 6 dollars a ton. Now big nuclear reactor produces 120,000 tons of purest fresh water daily, for pennies (a by-product of the reactor's electric power output). Saving to city is \$700,000 every day . . . over \$250,000,000 yearly!

NOT A WORD IN CANADA'S PRESS of Third Musical Festival of Asian Countries, organized by United Nations. Held in Alma-Ata, capital of Kazakh Socialist Republic. Judges heard some 200 musical productions, many from composers in such "new" nations as Sri Lanka, Laos, Bangladesh, Nepal. Newest feature: many young Asian composers are combining traditional ancient musical forms with more modern techniques. Delegates most impressed by great role of music in Soviet people's life.

'for the finest cause in all the world--
the fight for the liberation of mankind'

CHARLOTTE CARTER Memorial Fund



On the second anniversary of the death of Charlotte Carter, founder of Northern Neighbors Magazine and Northern Book House, the trustees of the Charlotte Carter Memorial Fund are preparing to publish the Second Memorial Listing of Names.

This is one of the unique features of this Fund: it not only keeps alive Charlotte's memory, but enables us all to live on, permanently, in the work of the Fund, and in the minds of all who support it.

The Memorial Fund's main activity is to issue publications which aid in the liberation of mankind. The emphasis is on showing people the truth about "Socialism in Action". By paying for today's high costs of printing, the Fund makes valuable publications available for distribution to the widest public. Just in a year, the Fund aroused a remarkable response, and its publications have gone out to tens of thousands of people.

Every supporter of the Fund (by sending a donation, no matter how modest) can memorialize his or her own name; or the name of someone else who is cherished. In the Second Listing, now being prepared, many more names will appear. Thus all names represent people who are "in action", permanently, in the fight for liberation.

Great numbers of people will see the Second Listing when it soon appears. If your name, or the name of someone you revere, was not on the first list, you can now assure it a place in this unusual people's memorial. Just send a donation, and your printed name (or initials) as you wish it to appear, to:

The Treasurer - Charlotte Carter Memorial Fund - Box 1000 - Gravenhurst, Ontario, Canada - POC 1G0



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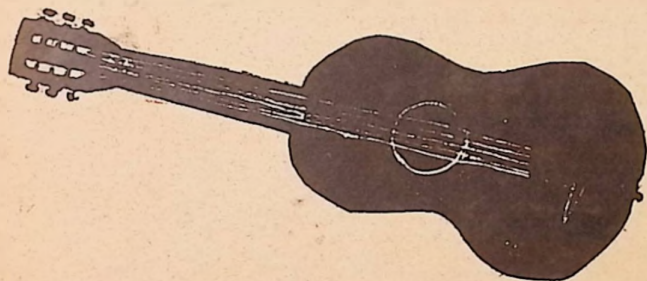
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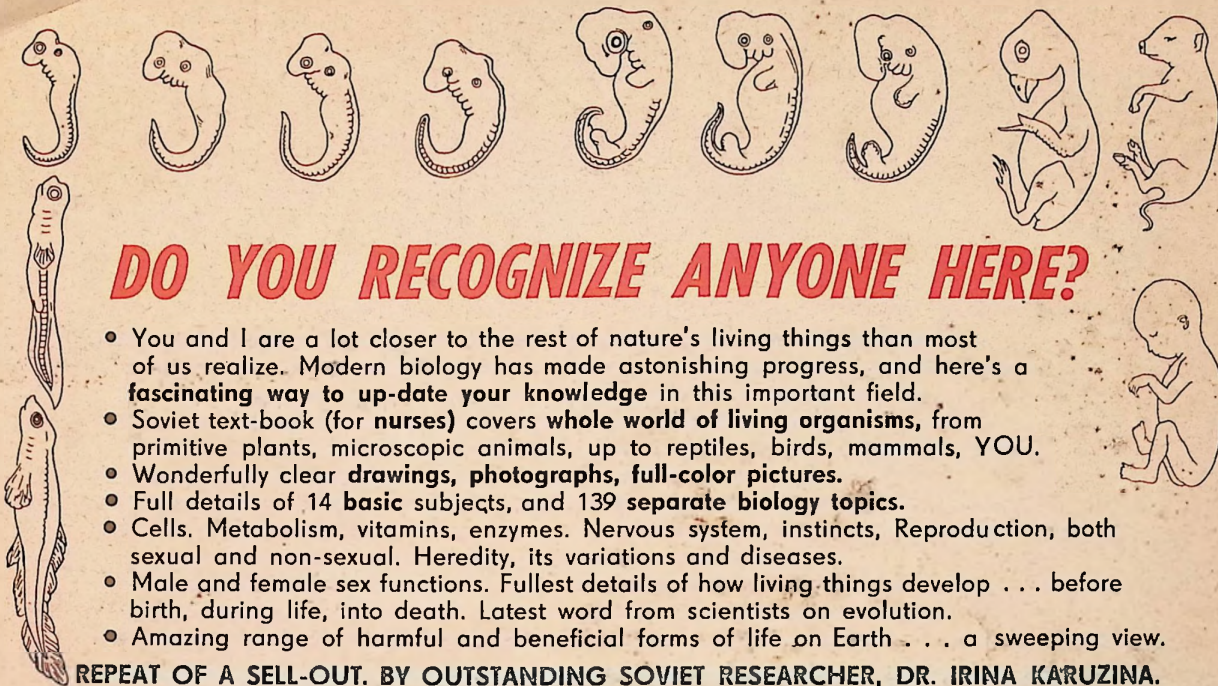
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