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International Standard Serial
Number CN ISSN 0029-3199

NORTHERN NEIGHBORS

NOVEMBER
1982
No. 289
85c

Peace — Work — Freedom — Equality — Friendship — Health & Happiness for all Peoples!



Flight Engineer Alexander Serebrov, Researcher Svetlana Savetskaya, and Flight Commander Leonid Popov, on their return from eight days in orbit with two other Soviet cosmonauts. Svetlana was the second woman (after Valentina Tereshkova) to leave Earth. But she started making records in her teens: at 17 she set three world parachute-jump records, and at 19 she held top rating as a Soviet pilot. In 1970, still unknown outside USSR, she startled Britain by winning the overall world aerobatics championship, long held by Jacqueline Cochran of USA. British called her 'Miss Sensation', when she set eight world records for rate-of-climb in super-sonic jet planes. Funny thing is, her famous flier-father, and other aviation authorities, all tried to discourage her from flying. Too young, they said, and too small, too delicate. Now look. See also Pages 20-21.

Right To Be Jobless? PAGE 3 **Is The "Snowman" Alive Now? PAGE 16**

How To Keep Fit And Healthy With Nobody Seeing You

PAGE 9

Siberia is back! Just in time for Christmas! See back cover.

NORTHERN NEIGHBORS

The Magazine of Socialism in Action

GRAVENHURST — ONTARIO — CANADA

CONTENTS

November 1982
Volume 26 No. 10

Tried Freedom Lately?	3
Right That Won't Go Away	4
Needle Fans	5
Miracle At Number 67	6
Surgery For Hopelessness	7
People Are Here To Stay	8
Exercises Unseen	9
In Siberia's Bush	10
Timber Pioneers	11
If In Doubt, Hold It	12
Natives At Home	13
Here's To This Day!	14
It All Began In '17	15
Don't Look Now . . .	16
Greetings From Orbit	17
Mary Is Back For Christmas!	18
Top Brains Are Workers	19
Second Woman Off The Earth	20
Looking Past The Sky	21
Armaments For Bankruptcy	22
Glad You Came	23
News Without Gloom	24
A Map You Mustn't Miss!	25
Labor And Money Saving	26
48 More Ways To Health	27
Our Woman In Siberia	28

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Subscription rates: \$6 for 10 issues, \$13 for 30 issues. When changing address you must send old address, preferably clipped from NN envelope, along with new address. Special Bundle Offer: 10 copies for \$4.00

HELPING HANDS, FROM THEM TO US!

I think just about everybody in the capitalist world learned about the tremendous new grain deal between USSR and Canada.

"It can't help but have an effect," said Wheat Board chief, Senator Hazen Argue, "in spurring sales of farm machinery, tires, oil and other things needed to handle and ship such a huge quantity (*many millions of tonnes*)."

Of course, some characters couldn't resist sneering at Socialism for wanting to buy our grain again. "Only way those Russians can eat," was the favorite crack. Even so, expert comment did get through: Soviet food industry is enormously expanding its dairy and meat production. *While ours is slumping*. So if they can use our grain (a terrible surplus is building up) let's sell it.

Friends, I don't want to spoil this prosperity picture. But I feel obligated to pass on to you the inside talk in the world grain trade . . .

All media in the West were "mobilized" to spread tales of "another awful crop failure" in USSR. They started out with an "estimate" of only 140 million tonnes. Later, well, maybe 150 million. Latest says they just might take in 175 million tonnes.

Real method in this "news". Grain speculators made huge fortunes on the world "futures market", by using this Soviet crop-failure story to inch up the depressed price of grains.

Actually, the Soviet crop (as this goes to press) looks promising.

BUT NOW MAY I OFFER SOME FREE ADVICE?

Senator Argue, and all others concerned with Canada's economy, should take up the question of *continuing grain sales to the Soviet Union*.

Sooner the better. And for the longest possible term.

Why so?

The lesson of rice farming in Socialism (like cotton farming before it) is very, very serious. Ten years ago USSR was a heavy importer of rice. This year: no more imports, they have a surplus of rice.

And what they did for rice (and cotton) they are doing now for grains.

So wisecrackers about inefficient Socialist Agriculture are definitely not in the interests of Canadians. Better, much better, if we sit down with them and discuss future trade.

Before they come heavily on the world grain export market.

LAST CALL TO YOU AND YOUR FRIENDS

The Charlotte Carter Memorial Fund asks me to remind all NN Readers that they, and everyone else, are invited to submit an essay on "how and why" it's important to go for The Liberation of Mankind.

Length: 500 words or less. Prize for adults: \$300. High School Students: \$200. Public School Students \$100. Closing date: December 31 1982.

Write the Secretary, The Charlotte Carter Memorial Fund Inc., Box 1000, Gravenhurst, Ontario, Canada, P0C 1G0.

NN's Quote-of-the-Month: "We favor normal, good-neighborly relations with China, and friendship with the Chinese people. Such is the line of the Congresses of the Communist Party of the Soviet Union and of Vietnam. We are striving to pursue this line consistently. This is not easy, if one takes into account the burden of the past. But, we believe, this is attainable if the matter is handled in a calm way, without prejudices, on the basis of genuine, honest reciprocity." Leonid Brezhnev.

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You'd be surprised to find how many intelligent people "react" well to NN if they see it. We'll mail them copies if you'll send us their names. But, if you prefer, our "Four People Plan" still works. Send us four names-and-addresses, plus Five Dollars, and we'll send those people NN not just once, but three times, three issues.

The Anniversary of Freedom to Work

Our world has not yet grasped the revolutionary effects of Socialism, the system that regards human labor as the creator of splendid new ways of living.

In Socialism people take a new view of labor, work. Not only is work *essential to live* (in that system, where no one can live on "un-earned" income); but labor is remarkable *social activity* which human beings use to develop their personalities.

Of course, labor in Socialism is often wearying and dissatisfying. But even so, in the Soviet Union, where (as Marx foretold) **Labor is King**, your work, more than anything else you do, shows people *your true personality and worth* ... and likewise reveals to you what everybody around you is like.

Right here in Capitalism, experts know how vital this question is. "Industrial psychologists" have long watched closely all new "labor developments" in Socialism, seeking answers to serious problems our bosses face in modern production.

Only recently (or, rather, *before* mass unemployment hit us!), did employers and trade unions become deeply concerned about workers' attitudes *outside their work*, their lives in general.

But in Socialism the very purpose of human labor is to **help fulfill human life in every way**.

As you might well anticipate, this approach has been bringing about *new attitudes to work*. In fact, these Soviet attitudes are basic to all the **production successes** scored by the people in Socialism.

You can rank foremost the demand by Soviet workers, of both sexes and all ages, that *their work must be interesting to them*.

Big advances in last few years.

Many millions more Soviet boys and girls have gone to work with *high-school or higher education*. Their demands for interesting jobs is radically advancing Socialism's production, in industry, agriculture, transport, trade, management and planning.

Today millions more are coming up in *advanced schools*, where interest in the job-to-come is the *main reason* for studying.

A surprise has appeared in some new Soviet plants. Workers, young or old, are by no means always happy with automation. Even if it eliminates burdensome work, such automatic production can *bore* people or make them feel *useless*.

But some automated processes do involve constant worker attention and skilled labor, and thus rate high in work-satisfaction.

Outside the work-place, great new demands are rising in USSR. They have a book-publishing *crisis* because today's workers insist on *owning* many new books, in their own libraries. Some insist on more *theatres* (always "sold-right-out"). Others want cars, boats, world-wide travel, and tens of millions are into sports as athletes, not spectators.

But note: in considering their everyday problems, Soviet people *relate* them to work, but never even think of ever *lacking work*. They don't discuss and *don't even understand unemployment*.

Remarkable part played by Housing

Ever since World War Two housing in USSR has been in short supply. Lately, however, many millions of Soviet families have been re-housed in private houses and apartments. And the workers, directly through their unions, have played the **main part** in this world's largest housing program.

In turn, such day-to-day activity, involving a large part of the entire population, gives Soviet people new insight into **their labor's part in improving personal life**.

In other words: a person's labor, in Socialism, involves much more than its immediate goal of production. It also is directly linked to the **social objective** of good housing ... coming right down to **each individual family's housing needs**.

In a very real way Lenin's words have "come to life" in Socialism. ...

"For the first time after centuries of working for others, of forced labor for the exploiter, it has become possible to **work for oneself**, and to employ all the achievements of modern technology and culture in one's work."

Ever since the Revolution, 65 years ago, Socialism has inspired its trade unions to draw *all workers* into broad *control and direction of their lives* in Socialist society, far beyond mere on-the-job work.

Competition for the sake of all.

The most "politically educated" workers in USSR *always* encouraged others to *compete in labor*, to raise Socialism's output. But in the 'thirties this competitive drive became a great new historic force, when the miner Stakhanov showed how to cut *ten times more coal per shift*, with better work-organization.

Today in USSR 107 million men and women regularly work in *competition* with others. This, indeed, is the Socialist system's substitute for Capitalism's famed Profit Motive.

Millions gain personally through increased production. But *everyone* benefits through **social pay-offs** financed by **higher profits** obtained from increased productivity.

This is the Profit Motive on a new social level: **each one labors to make profits for all**.

And everyone always works.

Why not? When you "work for yourself" would you be stupid enough to fire yourself, or anyone?



Lotteries in Socialism?

This year, in the Russian Republic alone, people will spend 200 million dollars on one popular lottery. They'll win prizes worth 120 millions. The 80 millions in *profit* also go to the public, in the system's treasury (budget).

Very popular is "Sportloto". It pays in modest cash prizes. But all over USSR you see stadiums and other sport facilities *paid for by the public*, through this lottery.

In their "Booksloto" the winners get only books or recordings.

In their "Artsloto" people know they'll win *only art works* ... but 8,000,000 tickets are sold right out every time!

In these ways the age-old *human urge to gamble* is directed to the double purpose of *personal and social gain*.

But in Socialism's lotteries no one can get rich. Only make life a little better *quicker*.

JOBS: all other "rights" are worthless

Great truth of Socialism is now being bitterly re-discovered

Back in the early days of Capitalism the great French socialist, Charles Fourier said prophetically: "Speaking of human rights (*Liberty, Equality, Fraternity*) they forget the principle of the right to work, without which all other rights have no value."

Capitalism, based on freedom-of-enterprise, has always called itself the Free System. Yet from its very beginnings Capitalism suffered the curse of unemployment.

In recent times the new system, Socialism, has spread far and wide on our planet. Thus challenged, in 1946 USA passed a "law on full employment". In 1947 Italy "recognized the right of all citizens to work." In 1948 France declared "Every person must work and have the right to a job." Many other countries in the West made similar legal proclamations.

But nowhere did these "laws" have any effect.

Look around the Free World now. Just in Western Europe the number of unemployed has shot up from 18 to over 30 millions. Where is the "right" to work?

What the children are telling us

You can judge how "free" our media are by the fact that they "overlooked" a sensational report of the United Nations. In the midst of desperate unemployment, our system gives millions of jobs to children aged 10 to 14.

West Germany's authoritative magazine *Stern* says: "Children are a cheap and obedient labor force."

Exactly! Marx revealed this long ago. Capitalism cannot enforce "laws" giving people work, because the system needs a "reserve army of unemployed" — *to drive down wages and justify the use of child labor.*

Why? Don't laugh. Unemployment is used by our Free Enterprisers to increase their profits.

You see the bitter truth of this in our papers every day, when some desperate young father pleads: "Give me one of the jobs those strikers have left! I'll take anything, even if the pay is way down!"

And if employers dare not slash wages, they take the "modern" way out and simply close down entire plants for weeks, months, paying no wages at all.

Now don't look over there . . .

When we lived in the depth of the Depression, in 1930, the Soviet people eliminated unemployment forever.

No, not by passing a law. By finally moving right out of Capitalism into full Socialism.

In that system, the working-people plan and carry out continuous economic progress, to raise their own standard of living. And this never-ending expansion guarantees everyone work.

However, this "simple" truth about Socialism doesn't tell the whole picture today. In recent years Soviet people have demanded *not any kind of work*, but jobs suited to their abilities and personal preferences.

This demand arose because of truly mass education, up to and beyond college level, which has now become universal in all 15 Soviet Republics.

The kind of work people want (and enjoy) changes very quickly as their educational-level rises. This isn't merely a matter of job *skills*. In Socialism, what's involved is *work* which the worker can see *is directly improving life for everyone.*

You can see "without even looking" that choosing a job you want, in Socialism, is possible because their system has literally millions more available jobs now than people to take them.

Over there, "the right to work" has long been taken for granted.

Over here, that right is no longer even mentioned.

Yes, full employment has its problems

If only because our world never before had such a system, Soviet people are continually coming up against difficulties that have to be solved. But, as Charles Fourier understood, *once you have work* all other rights become worth-while . . . and *within your grasp!*

Workers in USSR forever discuss what is best for **them** (as individuals); best for the **factory** or other enterprise they work for (and *own*); best for the vast **national economy** of the whole system.

Can wages (always rising) be pushed up faster without damaging Socialism's planned growth?

How much pay-incentive should go to the best workers, without discouraging those who can't make it?

How to cope with swift science-technology changes, which make many jobs obsolete very fast?

Added to all that are the problems of the USSR's tremendous size, great variation in climate, and all the individual peculiarities of 100 different nationalities.

But as you can discover for yourself, inside USSR, all such problems can be solved because their system has given them the priceless right to work.

The Right to Work is their supreme Freedom

For us over here, constantly reminded of millions living on unemployment insurance or humiliating welfare allowances, it is difficult to picture this fact of Soviet life: right now, 42 million working people in Socialism are raising their educational levels so they can cope with the onrushing tide of tens of millions of new jobs, at higher pay.

All that is *free*. If you have to stay off your job to complete some course you're taking, your job pay continues.

Problems? One of the biggest problems they've ever faced is to expand this training system faster, faster, to keep up with the advance of Science.

Don't you think we, too, could solve such a problem, if all our millions who want work had work?

Still, you see, they don't have our basic Right.

The right to hire (and fire) people in order to profit by their labor (or idleness).

No capitalists. No private enterprise. The entire economy owned by all, planned for all, growing for all.

In place of our rights, they have the Right to Work.

You'd like to be needled?

For a while (when relations with China seemed to be improving) we heard a lot about the ancient Oriental treatment called *acupuncture*. Now our doctors aren't interested. But that's not the case in USSR. As you've seen here in NN, they've been scientifically studying acupuncture for many years.

In photo at right you see Dr. Yevhenia Macheret, of Institute for Advanced Medical Training (Kiev) briefing doctors on acupuncture. Basic idea: if you irritate nerve-endings with a needle (or other means), the entire nervous system "gets the message", and, hopefully, some afflicted part of the body is made free from pain, stiffness, or other symptom.

Dr. Macheret tells NN that Soviet research identifies some 700 super-sensitive spots on the human body, with 120 of them useful in treatments. Incidentally, their studies reveal nearly 200 spots on the outer ear alone, all "linked" to a specific part of the body.

Usual method of acupuncture is to insert a needle (from a mere "prick" to deep insertion) and twist it around for various times. Soviet clinics today favor replacing needles by electric or laser stimulation, or even by very localized massage.

This seemingly weird treatment has come down through the ages because it scores some miraculous cures. Ten or twelve "sessions", no longer than 20 minutes each, have cured thousands of Soviet patients with *no other* form of therapy.

Acupuncture works best for "neural" ailments: pain or other disorders arising in the nervous system.



But millions today are afflicted by such ills. That's why Soviet specialists are being trained in the system, in advanced clinics like the one in Kiev.

Aside from such centers, many Soviet specialists are now using "the needle". Dr. Alexander Zharkin, of Volgograd Medical Institute, recently made news with his report on cesarean childbirth . . . operating to remove the baby when normal birth is impossible.

A cesarean is *very dangerous*. The mother must be under full anesthetic. This endangers the baby. So Dr. Zharkin tried acupuncture to render the mother pain-free.

It works. No need for the doctor to rush (to save baby from anesthesia). The mother is "needled" at *eight points* (arms, legs, abdomen). *No pain!*

This work followed the use of acupuncture in normal childbirth. In most women, proper needling makes their labor and childbirth painless.

Also important: acupuncture can be used to *speed up* or *delay labor* (sometimes very necessary).



Many doctors in Canada (and USA) have privately admitted that they believe "there is *something* in acupuncture". They'd like to use it, but we have no scientific training centers. Obviously, our medical authorities should arrange for delegations to go and see what's being done in the Soviet Union. The use of this system in childbirth alone, because of the shocking rise in defective babies and the increase in cesareans, makes an investigation imperative. Socialism would offer its findings entirely free.

Two Soviet inventors-sportsmen, who aren't doctors but are skilled in treating athletic injuries, have come up with a brilliant idea that may popularize "needling" for just about everyone — a kind of do-it-yourself acupuncture system.

Ivan Kuznetsov and Vagif Nagiyev work at the USSR's Higher Athletics School. Their idea: fixing large numbers of steel needles in flexible rubber strips, so the strips can be used to "bandage" limbs or body as a whole, *making the needles stick in* (but not drawing blood).

These needle-bands look scary. In our photo at left see how reluctant the athlete-patient is to rest his weight down on *hundreds* of needles. But the amazing fact is that the pain isn't bad at all. It soon disappears. Most people find the treatment very relaxing. And quite a few *go quietly to sleep . . . on the needles!*

Others like to "move around" with the needle-bandages on, giving themselves a kind of "acupuncture" treatment. Or, is it a *needle massage*?

Whatever you call it, many Soviet athletes now want "the needles" after every training session. To relax. Refresh. Eliminate weariness.

But some find that it can cure pains like radiculitis. And even the "chest pain" of angina, familiar to many heart patients.

Anyway, the Soviet inventors are patenting their idea. Stainless steel needles from 0.1 to 1 centimeter long, fixed to flexible rubber.

One square centimeter may carry up to 16 needles. But an injured joint may be wrapped so that *3,000 needles* are all pressing into the skin of the limb.

Nearly every user reports some pain at first. Followed immediately by *pleasant warmth*, pain relief.

ARISE, AND WALK!



It's called simply "Moscow City Hospital Number 67". But within it is the Medical Institute headed by Dr. Georgi Yumashev. For more than five years this miracle-worker has been performing operations on the spines of people "condemned" by Western specialists to a motionless life in bed. Today, there is always one or more patients from distant lands, arriving with fear and hope at Hospital Number 67.



Dr. Yumashev does not pray, except to his own hands, which must carry out the spinal-cord miracles. The helplessly limp hands of his patients are mute evidence that those specialists could well be right. But nothing can be lost, and so the operations proceed, after elaborate spinal investigations.



Still in a cast and a body harness. But . . . he has arisen! He will walk! The re-growth of delicate axons (nerve cells) is so slow that sometimes the miracle takes a whole year or more. Dr. Yumashev has speeded this process by grafting nerves from other sections of the spine. The operations are carried out with special microscopes, and are exceedingly delicate. The world-famous surgeon does not say this, but his miracles are symbolic of Socialism, which proclaims to all the oppressed and suffering world its aim — "All for Man, all for the good of Man!"



These hands must work without a tremble for 6 hours or more.



The surgeon and the mother share the joy of a miracle that has restored a young man who had been lost to life.



Sasha, paralyzed by a high fall, can walk again.

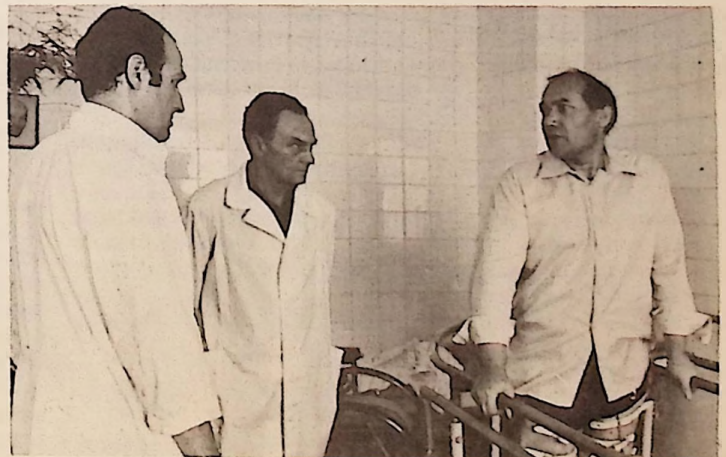
Spinal-cord injuries are very common now, due mostly to automobile accidents. Complete helplessness usually follows, so delicate are the tissues of the spinal column that doctors long despaired of repairing them. But Dr. Yumashev's studies told him that removal of broken spinal fragments, and then grafting healthy nerves into the cord (or near it) might well restore function in time. His operations now last 6 to 8 hours, and some patients do not regain use of their limbs for 12 to 18 months. But the regenerative powers of the spinal cord are far greater than was known before. Many foreign patients have been treated by Dr. Yumashev, including several Canadians.



Yugoslav film star Merime Isakovic has arisen!



TV repairman Igor fell of a balcony, faced life in bed. After Dr. Yumashev operated, the youth quickly regained use of his knees and hips. Further treatment, and time, will restore his body.



Beknor, a druggist, was brought from a distant Uzbek town where an accident had left him paralyzed for 5 years. After his 1981 operation, his spinal nerves slowly healed, and he now takes his first steps.

Great news! People will survive!

On this 65th birthday of Socialism it's good to see how right they were: the human race won't be wiped out because too many children are born. Good to show others to prove you were right, too.

Does the year 1970 jolt your memory? In those 12 months two clever writers came out with books that shocked the Western world.

George Taylor's "**Doomsday**" and Paul Ehrlich's "**Population Bomb**" both told the same terrifying story. Mankind is *on the way out*, they said, because too many babies are being born, and not enough adults are dying soon enough.

Since Capitalism has no liking for human beings (except as workers who make profits), these two books were praised higher than the heavens. Mainly because the facts they gave seemed to add up to the end of the world, for the poorest people.

- If average life-span increased to only 75 years, then by 2070 India alone would have 25 billion people.
- China's population would be 21 billion.
- Even smaller countries like Brazil and Bangladesh together would have more human beings than the entire world in 1970!

Scientists of the Soviet Union immediately attacked these predictions. Taking all population trends into account, they said, indicates a *total world population* of about 12 billion . . . **no more.**

This was a vivid example of the way modern sciences differ, in Capitalism and Socialism. Even more striking is the way **Socialism proved to be right.**

This year the United Nations Population Fund reports facts almost exactly in line with Soviet predictions.

- The birth-rate in all major regions on Earth is continually going down.
- Between 1965 and 1980 the number of babies born per 1000 people in China fell at least 50 percent.
- The unscientific myth spread by Taylor and Ehrlich, that we are doomed by "**uncontrollable population growth**", is no longer accepted by scientists, who now support the view given by the USSR back in 1970.

Indeed, recent careful research offers remarkable confirmation of the stand taken by Socialism.

- In the 1960's, a period that horrified the "doom" prophets, the world's population growth actually **declined** from 1.99 percent to 1.72 percent (a large drop in just 10 years).

- Current figures show that growth will keep on falling: to about 1.5 percent by the year 1999, and then, gradually to . . . **zero.**

Although Soviet population researchers did not say that "everybody will copy the USSR", still they did foresee Socialism becoming *the world's system*. And that assumption is vital for population estimates.

- Soviet population *grew rapidly* when Socialism came (especially after World War Two).
- But now the growth is *falling off*.
- By 2075 the USSR should have **zero growth**, with highly stable birth-rate.
- Applied to the world, Socialism would thus increase today's population of some 4,500 million up to 10,000 million, by the year 2110; and then **stop**.
- Which is *exactly* what the United Nations research groups estimate in their *latest report!*

The broad progress Socialism has made in USSR and other lands leads Soviet experts to be **optimistic** about higher living standards for all the world's people. But they have **serious reservations** about that.

So long as Capitalism exists, "rich" nations will ravish the "free" world of its resources.

Consider USA. That country occupies only 2 percent of our planet Earth. But it produces **more than 50 percent** of all the world's **pollution!**

We in Canada know this only too well, since USA's "acid rain" is poisoning our lakes. But action on a *world scale* will be required to save mankind from being polluted to death.



In USSR, and its neighboring Socialist countries, the pollution problem is being effectively tackled even though it is **very costly**. No problem for their system, which has available, for essential social expenses, all the **enormous profits** of modern economies . . . when they are operated without capitalists.

On a world scale, probably *thousands of millions* of dollars will be needed to combat planetary pollution. Can such sums be provided?

They are already being turned over to arms-makers. Latest UN figures show that the two world systems, Socialism and Capitalism, this year will spend close to 550,000 million dollars for military ends.

Even without world Socialism, with "only" world-wide agreement to abandon force in international relations, obviously mankind could supply the funds required to defeat the threat of pollution.

But quite aside from our environment, right now our world faces *terrible and increasing hunger*. (You saw detailed facts in last month's NN.)

Here, again, an end to the madness of armaments would solve starvation. The UN has shown that all hungry humans could be fed, and all sick people supplied with basic medical care, **for the next 10 years**, for the money we'll spend on arms **in the next 12 weeks!**

Yes, there is another vital problem involved. To adequately *feed* the world's hungry, millions more **agricultural workers** are needed.

But you see where to find them. In the tremendous armies, navies, airforces that cover our planet today, **wasting Earth's substance** on an incredible scale.

Soviet people believe this will not continue. Then . . . "*Everything for Man, all for the good of Man!*"



Health through

INVISIBLE EXERCISES

Imagine a top-flight athlete telling you how to have a work-out, unseen. Millions are trying this in USSR.

Dr. V.P. Pomerantsev has been on a crusade, gathering Soviet people of all ages (from kiddies up to bedridden oldsters) for the cause of **health by body movement**.

His background facts are impressive. Most of the ailments that spoil life arise, directly or indirectly, from being *half alive* — that is, keeping your body **motionless**. When you don't move, all your body organs and tissues get the message: **motion is life**, but you aren't concerned with that elementary truth.

Even if you are young, one after another your body's vital parts hear the slogan: **Don't move, get sick!**

Unnoticed by you, the heart especially tells its muscles to take it easy, get weaker, prepare to stop.

Nowadays millions worry round the clock about their **blood pressure**. Seemingly they (and many doctors, too) ignore the plain fact that **the more you move your body**, the **LOWER** your blood pressure will fall, gradually but for sure.

With certain exceptions (grave diseases) the less you move your body the **higher** your blood pressure will go. That's tough luck.

More bad news for "relaxers".

- Your vital **metabolism** declines as you keep still; either you lose appetite (much of the joy of living) or you fill out like a pig.

- Your blood coagulates easier; so it easily forms **clots**; in vital spots, clots don't signal you . . . somebody calls the coroner.

Dr. Pomerantsev is telling Soviet people that *specialists the world over* agree on this. They may argue black in the face about **diets or drugs**, but the case for **keeping your body on the move** is undeniable.

If only because the more you move **the more oxygen** you must breathe in, and oxygen flowing into body tissues **out-performs any pill or capsule** on their prescription pads.

If there's a *health-gas*, then free oxygen is it.

Countless "serious cases" in Soviet clinics, put on a 3-to-6 months course of **body movement**, without any drugs to help, have turned up **symptom-free** for years after.

If you were asked to name the very top medical authority in USSR, a good choice would be world-famous heart specialist Yevgeny Chazov.

Dr. Chazov is right out front **not** with super-pills and heart by-pass surgery but with . . . **body motion**.

Millions of Soviet blue-collar workers; desk keepers; pensioners; kindergarten kids; all know what Chazov says:

"You should keep in mind that 20-30 minutes of daily physical exercise is a **guarantee of health and strength**, as well as success in work and a firm character."

He agrees with the World Health Organization that *hypodynamia* is a **universal disease** now, ruining life, killing millions.

Means: **lack of movement**.

He tells us: "No medicine can substitute for movement. Many people have come to appreciate this simple truth."

You no doubt agree. Exercise is just great.

But for one reason or another (maybe another *ten*) you feel that **jogging** isn't for you.

Or skiing, skating, smashing boards in karate classes, climbing Everest or running up escalators.

Good news, friends!

Dr. Arkady Vorobyev takes over . . .

Although Dr. Vorobyev is a two-times Olympic Champion, here he offers ordinary people seven secret exercises anyone can do.

Even if other people are in the room while you read this, promise us to start these exercises *immediately*.

No one will see you doing them. *Invisible, see!*

1. Just sit the way you are. Exert foot muscles so you curl your **toes strongly**. Count three. Let your muscles relax. Do it again, five times. Not right now, but next time, repeat six times. And so on, until you enjoy giving your toes this work-out 15 times.

2. Press heels to floor. Raise feet slowly, up as far as possible (toes rising). Count three. Lower your feet and let them relax. Do again, five times. More, later, as for No. 1 above.

3. Press toes to floor. Raise feet slowly, up as far as possible (heels rising). A little trickier than No. 2 above. With heels high, count three. Lower feet flat, relax the muscles. Do it over five times. More times, every day, up to about 15 at one go.

4. Feet well apart on floor. Keep heels where they are while you twist both feet so toes point **outward**. Twist as far as they'll go comfortably. Bring them back slowly, let them relax. Now reverse it: keep toes in starting position, and twist your **heels out** as far as you can. Each exercise is done five times, at first, then up to 15 times.

5. Sit on chair. "Wrap" legs-feet around chair legs. Now **think**: you want to strain-tense the muscles of your legs, hips, and bottom. Only way is to try all that. But go easy. Do it twice only, first time. Increase by one more tensing each time you do it. Ease off if you feel twinges of excess strain.

6. Sit on chair close to desk or table. Both hands on surface in front of you. Press down on hands as hard as you can. (Stop if any pain.) Count three while pressing. Important! Sit with your back straight up while doing this one, and keep your head tipped slightly backward, rather than forward. More times, later.

7. This one is really the "super secret". First publicized by famous Soviet doctor in "My Way To Stay Young" (our Report No. 432, 75 cents).

Sit straight. Inhale "with the abdomen", by thrusting your belly **out** while you draw air into your lungs.

Then let breath out, drawing belly **in**. Force every breath of air out as you pull in stomach.

You'll be surprised how, with practice, you can breathe out more, and in more, as days go by. At first do it five times. Add one more time each day. Eventually, you'll get **superb results** with 30 to 40 repetitions at one time. Proof? Try it. *Invisibly*.



Gennadi Polityko came to Siberia to help clear BAM railway routes, decided to stay on.



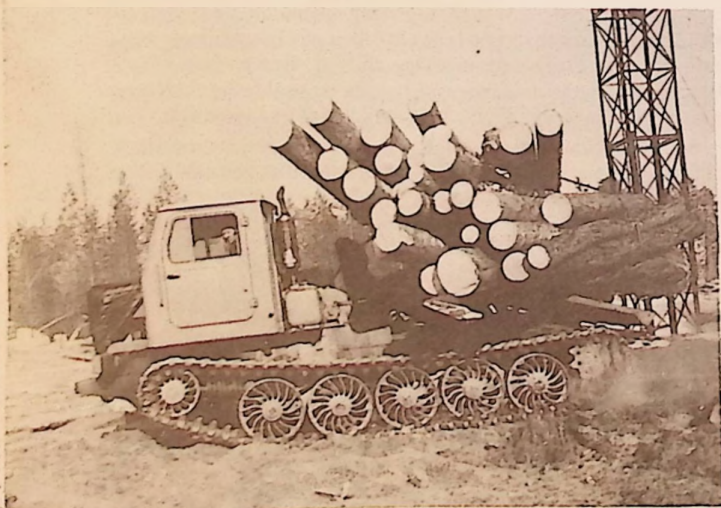
Not yet on maps, Kichera is a beautifully located town, brand new, on BAM railway, and Gennadi has settled here.



Nikolay Vdovchenko helped make up Gennadi's mind; he married in Siberia, now has three youngsters.



Even in winter Siberia isn't all that wild, and littlest Polityko will soon be on skis.



Some of the timber they cut now goes by rail to distant mills, but a lot is used for local construction work.



Frequently Gennadi plays part of teacher: he instructs timber workers from Bulgaria how to handle tough Siberian brush. (See next page for Bulgarian-Soviet cooperation.)

TIMBER

Life in the Woods in Socialism

Whole "armies" of our timber workers are *without jobs* today. But in USSR they can't get *extra men* fast enough to fill orders continually **increasing**, as planned. Here's a glimpse of life in Soviet forests today.

Gennadi Polityko is the man you see in most of our photos at the left. He's really out in the frontier of timbering: on the route of the Baikal-Amur Mainline railway (BAM) through Siberia.

Forests thrive for thousands of miles around BAM, but every few days Gennadi leaves his saw behind and spends his shift *planting new trees*.

"Planting isn't new to me. In Byelorussia, where I worked as a timber cutter, we made it a rule to plant a tree for every one we cut. Here in Siberia, development is just getting under way. In fact, you can't call our work commercial logging, yet. We just make cuttings for highways, transmission lines and the railway.

"But we stockpile the timber. It's used for local buildings. And we replace the trees as soon as any sizeable area is cleared."

Gennadi Polityko lives in Kichera. Don't look for this on your maps yet. It's on the BAM railway, 401 kilometers from the western start of that line. So it is now linked to the entire USSR, and timber will soon be flowing out in endless trainloads.

Incidentally, the other (Pacific-eastern) part of BAM is also open for trains, and wood is flowing in that direction now, mostly to Japan.

Gennadi originally came out here from Byelorussia for the higher pay and the challenge of work that attracted tens of thousands of Young Communists. But the country soon appealed strongly to him. And when he realized that forestry would prosper here far past his time, he began to think of a family.

Another BAM "volunteer", Valentina, helped him make up his mind, even though prospects for a comfortable married life weren't so good at first. More like timber camps in Canada, back in pioneer times.

But you can't find such camps at Kichera today. This is a planned and developing city of the new Siberian kind. Soon after the Politykos got married, they received (from local Council) an apartment in one of the new 10-storey high-rises.

"I like the apartment," Valentina says. "It's small but comfortable. Right next door are shops, a club, a gymnasium, and service-repair centers.

Kichera is no big city, but it gets more conveniences of city life every year.



Here's Selibsky Timber Centre, North European part of USSR (Komi region). It's joint enterprise planned and run by USSR and Bulgaria. Yearly output is 600,000 cubic yards of wood. Two Socialist nations share the output in proportion to labor, material, finances. Western lumber "kings" haven't yet grasped that Socialism is so booming it must find more workers before production can be increased.

You're asking: out there, a thousand miles from nowhere, what's it costing Valentina and Gennadi Polityko to live?

Distant from Moscow they may be, but they're still in the Soviet Union and rents are no different anywhere in that vast land. Translating their *roubles* into our *dollars*, here are the facts:

- The Polityko's apartment rent is 12 dollars per month. Since this barely covers service costs, the real rent is paid for by the Socialist system.
- On top of rent, however, they must pay 6 dollars a month for electricity, hot water, heat.
- They both like to work, so their boy Oleg goes to kindergarten; that costs 20 dollars per month, but includes *most of Oleg's meals*.
- This family spends 5 to 7 dollars a month on laundry and dry-cleaning.
- Valentina's food budget is about 320 dollars per month, and people eat plenty in Siberia's climate.
- They figure in an average month they spend up to 500 dollars on clothing, recreation, things for the house; and they're also able to save.

Next summer they'll spend their savings on a vacation. This past summer they skipped it, so now they're due to get a double-holiday, with pay.

How long? For workers in the north, **three months!**

The Politykos have lots of plans past vacation. They can look any length of time ahead, since no possible threat of unemployment clouds their future. They're expecting another baby, and think apartment life is too cramped (with all that great-open-space available in the Siberian woods). So next year they'll build a two-storey house with garage.

They'll borrow some, to finance it, *but the interest definitely won't be over 2 (two) percent!*

And next year, Gennadi tells us, he'll put his chain saw away for a high-frequency electric cutter that goes through the biggest trees like butter.

"A little knowledge is a dangerous thing!"

Millions have been *scared to death* by news reports about the danger of modern science and technology **killing us off**. Cancer-causing chemicals. Radiation. Acid rain. Spray bombs bringing back the Ice Age. Seems the more *progress* science makes, the nearer it pushes us to *Doomsday*.

Soviet scientists never did buy that line.

Here NN gives you a few reasons why. Based on *new facts* coming to light. But our media **ignores** them.

Doom-and-gloom is more sensational. Want to relax with some *cheerful truth*? Great to try on friends.

That Mexican Volcano. In 1982 "El Chichon" belched a vast cloud of ash, gas. **Sulfur dioxide** and **sulfuric acid**. Won't go away (about 15 miles up). Reflect's Sun's rays, so Earth may cool enough for us to notice.

Nothing done by modern industries equals the menace of El Chichon. And Nature is bound to set off many another such blasts. *But don't lose sleep!* Earth (including us) has survived thousands of years of terrible volcanic pollution.

Banning dangerous drugs. You saw Britain has **banned** arthritis drug "Opren". People died while taking it. After the ban, scientists pointed out that people **not** taking Opren, in same age group, would **naturally** die three times more often!

So millions are now denied a drug said to be very helpful for victims of arthritis.

Nothing is absolutely safe (even air and water can kill some people). As in USSR, our authorities should *balance* beneficial effects against possible harm. Never forget that **before** any modern drugs existed, many more people died.

Saving our forests. Only recently have scientists been able to find out what forests *used to be like*, before Man took over.

Surprise: forests **had to burn down**, naturally, every 300 years or so. Laying waste, by fire, is what **renewed** and **revived** them.

Foresters now allow fires to burn, in some areas. In USSR they find it's better to **strip** forests, using them industrially, then replant. That way production of wood is 400 percent **higher** than in nature.

Spray bombs ruin atmosphere? Many products banned, after that scare. Now, it turns out, accurate facts show the "death spray" is formed, on enormous scale, *by nature!*

Also new: fact that vital ozone, in high atmosphere, is **not** being depleted (as claimed), but in actual fact is **increasing**.

So relax, *doomsday it ain't*.

Acid rain is falling. Changing over from gas and oil to coal, as fuel in power plants, is a terrible menace because of smoke-gases that come down on us as **acid rain**.

Somebody picked out facts that make headlines, *ignored others*.

Truth: for a long time USA factories have sent up about 400 **million** tons of acid-smoke yearly. If all electric plants convert to coal, the **added** pollution will hardly go over 190 **thousand** tons.

Don't move to the Moon just yet.

Those mercury poisoners. In Canada and Japan many scares have been worked up in media, over threat of **deadly mercury** in our waters, from paper and other factories.

Now scientists in laboratory aircraft have checked *volcano emissions*. Find mercury is poured into atmosphere in Iceland, Hawaii, Antarctica. From there it spreads everywhere.

Evidently, humans have been poisoned right from the start.

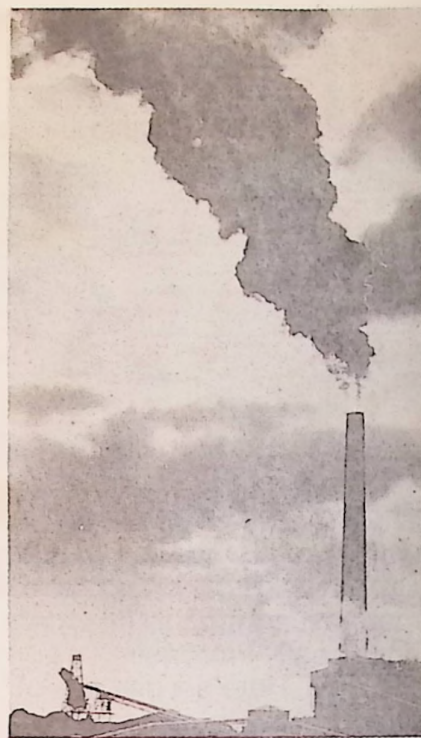
Plants like smoky air? No, many industrial gases harm crops. But *carbon dioxide*, made when we burn fuels, is proving to be a **strong stimulant** for plants.

You've seen those predictions about dioxide "choking all life on Earth". In USSR they're supplying this smoke-stuff to greenhouse crops, with excellent results. **Purifying** smoke, plants thrive on it.

Did you swear off bacon? Our media did a big job, couple years ago, with a dreadful *cancer scare*: all meats, kept safe (from deadly germs) by use of **nitrites**, are deathly because nitrate changes to nitrite inside us, and *it can start cancers*.

Enormous quantities of good meat were destroyed. People quit buying a wide variety of delicious products. *Who wants to eat cancer!*

Many researchers took a closer look. Facts? First: people form nitrites themselves, in the mouth (saliva). Second: the nitrate to start that process comes mainly from **vegetables** and other foods (*not meats*). Pass the bacon, please.



Radiation worries millions. From time to time the press runs horror stories, about homes (or schools) built on earth which originally was dumped from a wide variety of factories using radiation-chemicals. Official tests are made, and sure enough sensitive "geiger counters" show abnormal radiation. Sometimes stories relate to districts close to uranium mines or refineries.

Scientific surveys in many lands now give a broad picture.

Nature "pollutes" many streams with radiation materials from rocks, and **millions** of people have long lived in such radiation zones.

Some areas (Yangjiang County in China for example) have very high natural radiation levels. So have districts in India and Brazil.

But *centuries* of living there has produced **no detectable health effects**.

In USSR, they use radiation (in caves) as a *treatment* for some ills.

Nature out-kills Man. In modern times the most striking proof of this was given by the Mount St. Helens eruption that hurled a **cubic mile** of mud on forest and wild-life refuges.

Nothing Man ever did on this continent (including Indian hunters) comes near that slaughter. Millions of **birds** perished. Thousands of valuable elk and deer. Hundreds of protected **bears**, **goats**, **mountain lions**. Whole seasons of **salmon**.

The pollution of big rivers will be a disaster for many years to come.

And such things have gone on in our world since time immemorial.

Only Man, with science, and more knowledge, can make our future safe.

Their native "foreigners"

Economic crisis is bringing new tragedies to the native peoples in the north of our country today.

What is Socialism doing to the many northern nationalities of USSR?

Their life is being transformed in a way we can hardly comprehend.



Millions of white people are settling in the Soviet North nowadays. But the **native peoples** are regarded as **absolutely essential** for northern development. This realistic respect for them is **basic** for the success of Socialism's transformation of a whole new continent.

To some Western observers this fundamental Socialist approach is baffling. Today about 7 million people inhabit the Soviet North, but only half a million or so are native to that enormous region. So how can they exert any decisive influences?

Another question: those 500,000 people belong to many distinct nationalities, speaking different languages. Thus the Khanti, Komi and Saami (Lapps) speak a Finno-Hungarian tongue. Yakuts and Dolgans speak a Turkic language. Evenks and Evens are recognized by speaking Manchurian sounds. Most difficult of all: some Soviet northerners have Paleo-Asiatic languages, like nothing else on Earth.

For obvious reasons, when the Soviet government began to develop the North, *Russian* became the "common tongue" used by all native people to communicate with those of different language. However, to this day the big majority consider Russian only as a "secondary" tongue, and use their own in everyday activity. By contrast: only 16 percent of our Northern Indians now regularly speak their own language: *English* they have to use.

Interestingly, in rapidly developing northern areas of USSR, the *Yakut* language is "taking over" simply because so many use it. In other areas the *Chukchi* tongue is predominating; in others the *Nenets*.

Inter-marriage is having increasingly big effect. Some mixed-marriage people call themselves *Russians*, but many prefer to be known as *Yakuts*. In the North, as everywhere in USSR, every individual can **choose his or her nationality** when becoming an adult. Socialism does not recognize "blood" or "race".

Few observers from the West know that Socialism, far from seeking to "dominate" the native peoples by means of the Russian language — as we dominate Northerners by universal use of English — actually **created** many of the languages used in the Soviet North today.

True, people **spoke** their own tongues (though often poorly). For this the former Czarist authorities scorned and humiliated them. Soviet scholars made the first alphabets, first ABC books, first dictionaries, in many native languages. *This made possible the opening of native schools*, for the first time in history.

Only then was it possible for these people to develop their own **writers, teachers, educated specialists**, all truly "native" and in no way "Russianized".

Almost unknown outside USSR is the policy which came to be known, over there, as "**korenization**".

The term is from the Russian word *koren*, **root**.

And it means: encouraging these native peoples to *remain in their own nationality*, because they are people who have their roots in the North, and thus would become the very human-foundation of a Socialist Northland.

This optimistic foresight proved **amazingly correct**. For today it is the "**root people**" who are producing for the Soviet North such a wealth of highly educated and creative intellectuals.

One astonishing example: the *Yukagirs*. Though they are multiplying now, they don't quite number 800 people! Yet everybody in USSR knows them through the remarkable *Yukagir* writings they've already turned out.

Not by tongues alone does Socialism guarantee small peoples their rightful place in the new system. The two largest (Komi and Yakut) have their own Autonomous Soviet Socialist *Republics*. Their own Parliaments, governments, press, science, legal system, etc.

Smaller peoples have their own Autonomous *Areas*. They too have power within their own lands.

All such peoples elect representatives to the highest Soviet Parliament (Supreme Soviet) in its House of Nationalities.

Besides **government**, the northerners are guaranteed full equality and opportunity through **education**. Indeed, as a result of intensive effort, the youth and adults in the North today have a higher level of education (on average) than do people in USSR as a whole.

All these factors are "**merging**" in the Soviet North. So today some authorities are predicting the appearance of something new on this Earth: "*a Northern Soviet way of life*." Distinguished by speech, clothing, manner of living, cultural and spiritual values.

Socialism aims not merely to "preserve" native life but to **enrich** it. And this is being helped along by significant **material assistance**. Since the North is a *tougher place to live*, people need more and better "rewards" if they are to be truly equal to those who have easier lives.

So **pay** is higher. **Food** is more nutritious. **Holidays** are longer. **Free transportation** takes people out of the north for vacations anywhere in the south.

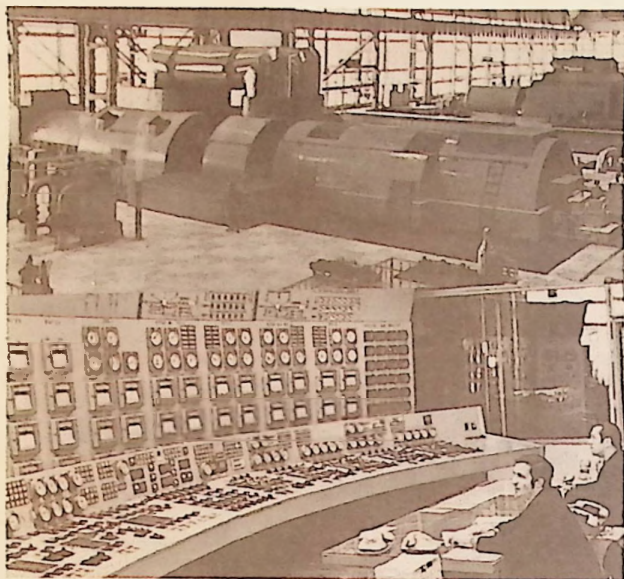
But: *southerners* working in the north far more often go south than do the **root people**, who were born there, in the land of ancient forefathers, their **home**, the rugged climate *which they prefer to any other*.

No "Yukons" in Socialism. No bankrupt regions. Every aspect of Northern USSR is **booming**. Like 550,000 domesticated reindeer now forming the base of a huge new agriculture-industry, with workers earning more pay than skilled industrial labor in the south.

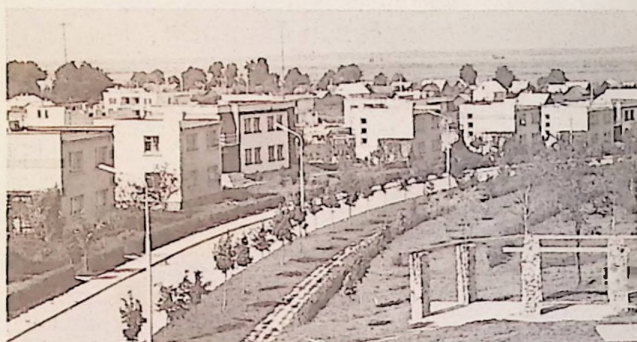
Plain truth: ever-better life for the "root" people is *essential* to the development of all Soviet life today.

Happy 65

November celebrations of the coming of
This year, more so. Well, wouldn't we ce



Millions get their winter heat from this Kiev power-heat plant. For a few dollars per month. In Socialism, warmth is a social service for all.



The good life is coming to Soviet farmers now. All harvests guaranteed sold; bigger crops bring higher prices. Housing, top priority, varies widely. In Byelorussia today they go for 2-family homes like these.



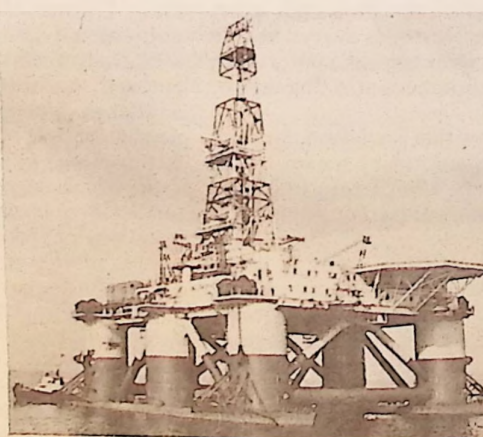
Fishing and canning work overtime in USSR. Fishermen can't keep up, so industry is buying huge un-sold catches in Canadian and Scottish ports, paying fair price which our canning industry refused as "too high".



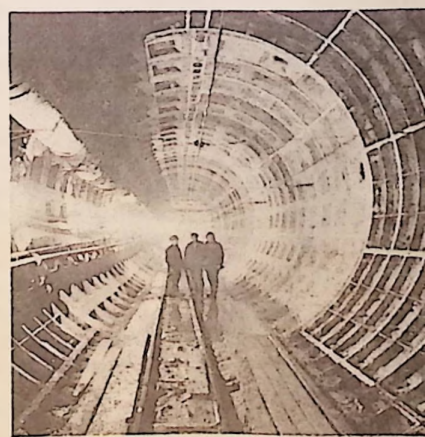
Revolutionary new high-speed machine with plasma, not metal cutters, to great production.



Out in Ust-Ilimsk (Siberia) Yelena, a timber boss, and Vyacheslav, truck driver, get married in a blizzard.



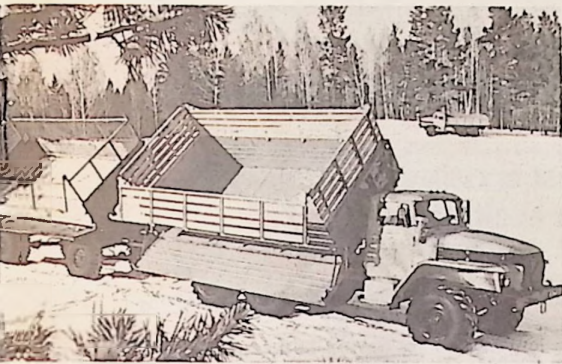
Newest Soviet rig gets right to bottom of Caspian Sea. Can't build offshore drills fast enough.



Still another Soviet city, Minsk, will have a Metro. Fares priced already: never over 5 kopeks.

h Birthday

cc:ialism in 1917 are always enthusiastic.
 brate a situation like they have now?



plant workers can't keep up with demand for
 the-road side-dumping model for farms.
 ff" isn't in their dictionaries.



Onezhsk tractor plant is on overtime, turning out these
 new-designed logging tractors for booming timber camps.



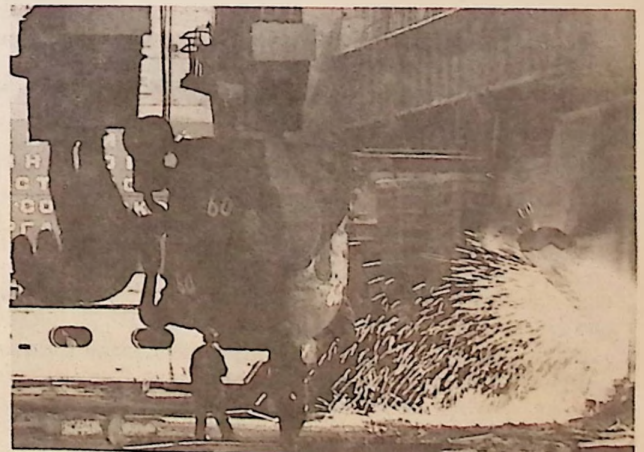
"Miraculous" city of Navoi was born in god-forsaken desert, now
 luxuriates in tree-lined streets and marvellous bathing beaches. Sign
 on hotel roof tells all, calling for "Peace to the World!"



Linking of Buryat and Chita sections of BAM
 Railway opens vast new flow of trade, exports.



New way to grow mulberry (for silk-worms) will speed
 expansion of highest quality fabrics.



In Cherepovets Steel Mills they take turns celebrating. All
 Soviet steel plants always work full 7-day weeks.



That "Abominable Snowman" - coming closer?

- You saw NN's report on this in July; now interest is rising in USSR.
- Leading scientists believe we have here the most exciting mystery.

Few Canadians know that the modern hunt for "Bigfoot" began with two of *our own explorers* (Patterson and Gimlin), who chose an almost inaccessible part of California for their probing. With no advance warning whatever, their horses reared in panic and threw them — instantly they saw, just yards away, a huge man-like creature who walked away on two legs.

Never to be found again.

That discovery made headlines round the world. But all Patterson and Gimlin could offer (from the creature's foot-prints) was that "he" was seven feet tall and weighed well over 500 pounds.

Since then, some scientists have dismissed the Bigfoot story as mere folk-lore. But the fact is: the existence (and sightings) of such giants is not something come down to us in legends only, but in stories as fresh as our own century. *Even last year and last month.*

It's a "myth" that won't stop growing.

In Russia, the famed naturalist-writer Przhevalsky went into detail about this in his book "*Mongolia and the Tanguit Country*". Many Mongols told him of "Hunguresu" (beast-man) with a human face, erect walk, hairy body, and great strength.

Przhevalsky noted a significant feature of these tales. When Hunguresu appeared, **human beings cleared out.**

Away back in the 'fifties the high-level USSR Academy of Sciences set up a Commission to look into this weird legend of a "snowman" living in remote mountains. Not much came of it, except a classification of our many forefathers, *the hominoids* — see drawings above.

The Commission learned of Tibetan reports which always used the word "mi-ge", a combination of man and beast. Exactly what the hominoids were.

The Academy didn't push its investigation. Indeed, as NN reported earlier, scientists in all countries just weren't interested in the obvious *possibility* . . . that Hunguresu or mi-ge were *for real*, surviving hominoids long since left behind by human beings.

- Those myths always called it "Man". Because of the creature's face, and his upright walk on two legs, everyone who claimed to have seen him labelled him some kind of man and not merely another animal.

But the skeptics have had it all their own way for many years. If there is a Man-Beast, as reported from so many regions, why hasn't someone taken one good photo? Failing that, since this creature has evidently been around for centuries, why no skeletons?

Yes, but. Lately, in USSR those "but" people learned of an amazing document made during World War Two, by Dr. V.S.

Karapetyan, a Lieutenant-Colonel in the Red Army Medical Corps.

His rifle unit was deployed then in the high mountains of Daghestan (part of the Georgian Republic). And one night local citizens brought to him a captive they thought might be a spy.

If so, his *disguise* was fantastic. Dr. Karapetyan found the suspect was naked, except for thick dark-brown hair. All parts of his body appeared to be human. But he was very tall, broad-shouldered, muscular.

On the other hand, his expression was that of a frightened animal. He would eat and drink nothing. While in a room, he sweated heavily.

Unfortunately, the Lieutenant-Colonel, convinced they had no "spy" here, *told them to let "him" go.*

And "he" immediately headed for the snowy hills.

Another "tall story"? It's not possible to assume that a responsible Red Army doctor would make up this tale. Any more than *hundreds* of simple mountain hunters and herders make up *their tales* . . . all the stories match, though the story-tellers live very far apart and don't even speak the same languages.

- How could these Snowmen remain hidden? Today even a new disease germ is quickly spotted. And we're living on the same planet as *people-from-before-us?*

No less an authority than Soviet Dr. S. Klumov, Institute of Evolutionary Morphology, says this mystery is not difficult to explain. All tales say that the man-beast lives on the very fringes of regions Man cannot inhabit — highest, bitterly cold mountains, or forests almost as bad.

Their severe existence explains why these remaining hominoids do not multiply. Yet, if they are **herbivorous** (don't eat animal flesh), they *never did compete with Man*, and so they survived . . . keeping their distance.

Dr. Klumov agrees with another authority, Dr. B. Porshnev, who holds that the creature is not a Man at all, in the scientific sense. He is a **relict hominoid**. One of our ancestors who has "stayed around", while all other hominoids vanished.

In any case, Soviet scientists have now compiled a map of "snowman territories". It includes mountainous regions of China, the Himalayas, the Pamirs, the Tien-Shan Mountains and Southwest Mongolia.

What about California and our British Columbia?

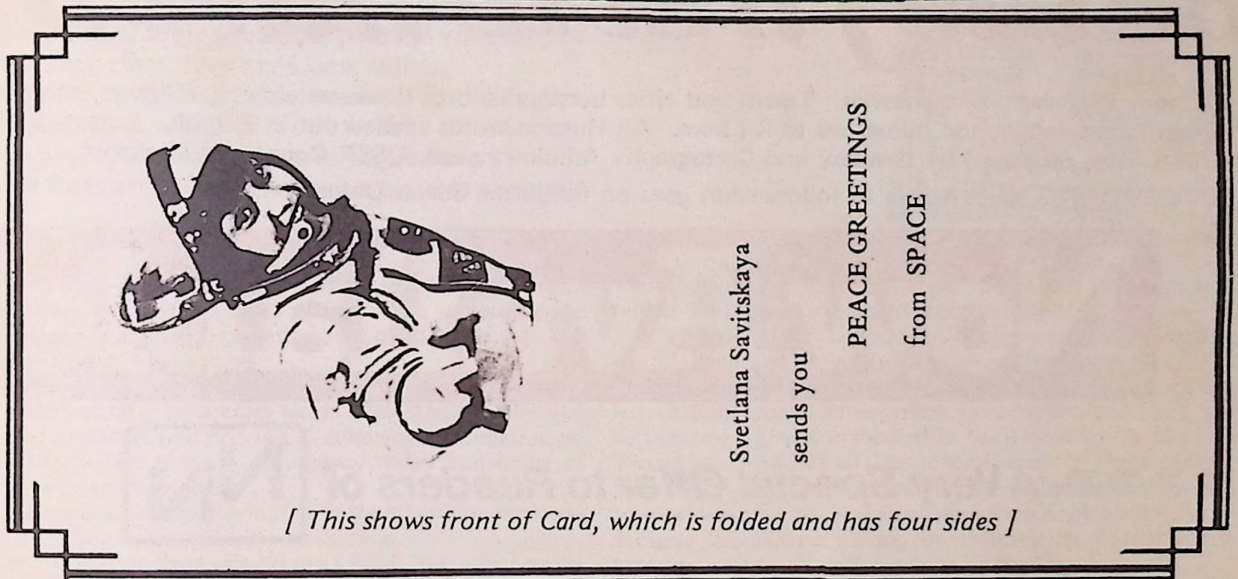
For now, Soviet investigators are sticking to their own territory: as you read this, they have a Snowman expedition out in the far-off Pamir ranges.

The general public in USSR has been told simply that "our scientists are eager to solve one of the most exciting mysteries of this century."

the HOLIDAY GREETINGS

problem:

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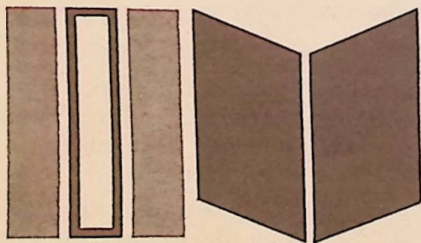
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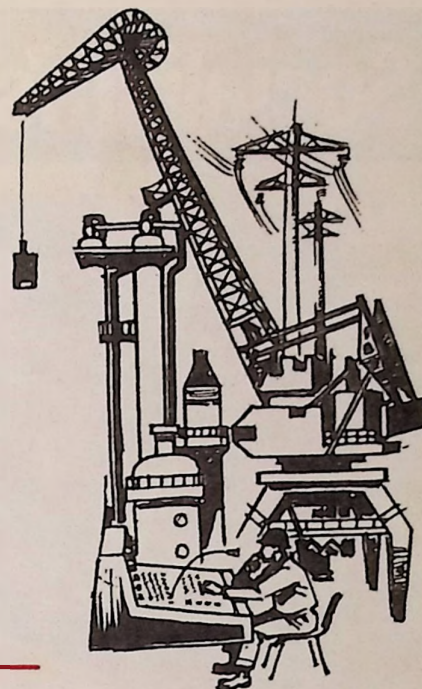
FOR THAT SPECIAL GIFT



What you read here makes a RECORD for Northern Book House. This is the FIRST TIME we have ever run TWO ADVERTISEMENTS for ONE BOOK in the same issue of 'NN'. Actually, TWO books. By Mary Dawson. About Siberia. And that character Solzhenitsyn. Terrific! Real entertainment along with very sharp ideas, information. Ideal to give as presents. We've just re-printed them both (sold out!). For BARGAIN, see Back Cover.

Something NEW and WONDERFUL on this EARTH of ours

Soviet working people are this month celebrating the 65th birthday of the world's first Socialist Revolution. In 1917, very few scientists and engineers went over to the side of the people. Today, the USSR counts twelve million production specialists and researchers. And three million of them are in the political vanguard of the working-class, they are Communists. This is a revolutionary achievement of Socialism that guarantees its leadership in our world's future. This is never, ever faced here in Capitalism. But the facts are of immense importance to everyone.



Although the Czarist Empire was an enormous region, and the Russians had a long history of interest in science, at the time of the Revolution you could count no more than 11,000 people working in that field.

By 1981, Socialism had "brought up" 1,400,000 men and women dedicated to laboratory work. Almost half a million of them had top academic degrees. Unlike any other nation on Earth, the Soviet science community today can boast of 560,000 women researchers.

These specialists are in addition to the 12 million men and women guiding Science inside production.

Over 100 nationalities inhabit the USSR, and every one is represented in scientific work. In Socialism this is held to be one of the outstanding triumphs of the working-class liberated from Capitalism, since all nationalities have distinctive ways-of-thought, which greatly enrich scientific progress.

In marked contrast to the *reduction* of scientific effort in Canada, USA and most European nations, as a result of our economic crisis, Socialism is *expanding* its Science as fast as new young workers appear.

There is no mystery here. Science now determines social progress. Just in recent times "pure" research has given us nuclear power, computers, space conquest, industrial electronic-robots, biology that is revolutionizing human life and agriculture. Science-based changes are transforming industry, labor, farming, health, education, transport, culture of every kind, our way-of-life.

Therefore Science, *directed for human good* and not for individual profit, has highest priority in USSR.

In the workers' system, no one can be without work. Instead, they use Science to guarantee continuous growth of employment in all basic fields . . .

— Swift expansion of electrical-power production to provide ample energy for planned expansion.

— At the same time scientifically economizing on fuel used to deliver power (and heat).

— Urgent programs to raise the productivity of workers, since they are chronically short of people, not jobs.

— Automation of production, especially when it can free working people from manual and dull labor.

— Radically new scientific ways to use less metals, and to prolong their working life.

— Applying the Science Revolution to agriculture, so huge increases in crop yields will be achieved.

— Re-making all transportation systems, so the movement of people and goods can be done faster, cheaper.

— Completely changing-over Socialism management which working-people can direct scientifically.

— Placing before Science the decisive task of protecting Earth's environment against threatened damage.

These nine key responsibilities of Soviet Science are not left to individuals, enterprises, or committees. They are determined by, and embodied in the USSR's official Five-Year Plan. And not all "in general terms." The working-people of Socialism have recently given their scientists 170 specific assignments, programs, and have singled out 41 as of decisive importance, calling for mobilization of their entire system.

Karl Marx, who discovered the working-class as the class destined to lead the human race into its higher level of civilization, would rise to applaud the Soviet people for their new scientists — they are very largely men and women workers and farmers, millions of them.

So it is appropriate to toast the 65th Anniversary of their Revolution for its creation of these new researchers: people of the working-class, whose aims are identical with those of their class, whose scientific work merges with the labor of all.

In the last few years, as scientists of Capitalism come into frequent contact with Soviet researchers, and as the Depression begins to close down laboratories in the West, there is emerging a definite picture of a new personality in the world of research: the Socialist scientist. Confident, enthusiastic, sure of his own future intimately linked with the people, the Soviet researcher indeed is becoming a symbol of all the new intellectuals of the working-class.

Problems?

Their main concern within Socialism is to speed up research and to apply it faster in their system.

This gives rise to a new Soviet scientist who must not only be creative but must also make sure that he organizes the practical use of his creations.

That is why tens of thousands of the USSR's leading scientists now are members of the Communist Party, working among those three millions who voice Party policy within the scientific community.

As never before, Soviet scientists strengthen the might and world prestige of their Socialist system, and carry to the farthest corners of the world the inspiration of their unity with Soviet working people.

Science of and for the people.

New! Scientists for Man, for the good of Man!

Socialism's Woman of the Year



Left: 12 years ago Svetlana Savitskaya was greeted by her father, Air Marshal Eugene Savitsky, after she returned from her triumph in England, where she won the title of World Champion Woman Aerobatics pilot. Neither of them dreamed then that Svetlana would return from orbit in space, a Heroine of the Soviet Union. But they remembered in 1970, as again in 1982, that 9-year-old Svetlana was forbidden to try flying. So, first, she took up jumping with parachutes. Then, on to daring test-piloting.



Walking to their historic take-off was not the first thrill in Svetlana's career. Flying new high-performance planes she has broken 18 world records in the air.



After her return from space-flight with four men they asked her what qualities she appreciated most in men, and in women. "I don't divide human qualities into men's and women's. The things I appreciate most in people are honesty, purposefulness, and devotion to one's occupation." From childhood Svetlana has been devoted to the air ... at least until she soared above it into the vacuum of Space.



The world's only women cosmonauts had an emotion-charged meeting when Svetlana was greeted back on Earth by Valentina Tereshkova, first woman to leave Earth. Svetlana's flight was much longer, eight days, but she told Valentina "Time passed so quickly!" In truth, her time was spent on elaborate medical experiments, which demonstrated beyond all doubt that women's reactions in Space are basically the same as man's. Socialism thus has scored two victories that can never be equalled — sending the first men, and the first women out beyond our planet.

How are they doing out there in Space?

On her return to Earth Svetlana Savitskaya said: "I feel well. I think that women cosmonauts can work in outer space successfully, and in the future whole families will work on orbital stations."

Well, it's useful to check on how they're coming along.



The media over here did give some news about Svetlana's flight. But lately we've heard very little of Soviet space activity. Maybe it's all *military*, just as in USA?

Maybe, too, USSR is lagging behind USA in all space fields?

This month NN reports to you on some widely different aspects of Socialism's space program.

Svetlana Savitskaya's research was concentrated on *the female body in weightlessness*.

Elaborate medical tests showed no essential difference between the two sexes, living in orbit.

Svetlana went up with two others (Popov and Serebrov). They joined the "permanent" crew in Salyut-7 Station. As this is written those two cosmonauts have been in orbit over 150 days. They, and the "newcomers", showed little difference in abilities or general health — remarkable proof that Soviet space-training is now highly effective.

Thus, a crew of five did research together in the big multiple-unit station, consisting of Salyut-7 linked with Soyuz T-5 and Soyuz T-7, by far the most complex ship ever orbited.

Note: Savitskaya, Popov and Serebrov returned to Earth not in Soyuz T-7 (the ship they went up in) but in Soyuz T-5, which had been in orbit for some 3 months.

Before their "visitors" came, Be-rezovoi and Lebedev (crew of Salyut-7) went **outside the ship** in new kinds of space-suits, and worked on equipment for 2 hours 33 minutes. No problems.

Surprise! Papers and TV here were astounded when USSR's "rescue satellite" saved three Canadians whose light plane crashed in our far Northwest, in September.

What did it all was Cosmos-1383. World's only satellite designed to pick up *distress signals* and find *exactly where they come from*.

When Canadian rescue-planes could not pick up any signal, authorities contacted Moscow. Cosmos-1383 began "listening". Immediately it passed over Yukon, the distress call (500 miles away) reached the Soviet detector, and its super-sensitive equipment *located precisely* where the plane had crashed.

A Canadian rescue plane then *went to that spot* and found the wreck and the survivors.

Cosmos-1383 has been up there since June 30. It's part of a rescue system planned by USSR-Canada-France-USA. At any one time, two "listeners" will be in orbit, covering the entire Earth.

Up to now, "distress signals" sent by planes and ships often could not be picked up by ground stations. If they were detected, *locating* the source was difficult. New Soviet equipment guarantees that every "S-O-S" will be heard . . . and then its position fixed to *within one mile!* Thus making rescue practical, certain and fast.

Life-saving promise of the new system is very great. It will be known as KOSPAS-SARSUT (from long Russian-English technical names).

Scientists are only now beginning to appreciate what USSR's landings on Venus accomplished last spring. Two stations climaxed Soviet research that began in 1961.

In 1975 "Venera-9 and -10" sent back photos (first ever of Venus). In 1978 "Venera-11 and -12" analyzed that planet's "atmosphere", took its temperature, pressure. In 1982 a mass of new information was gathered. New devices located more extremely powerful radiation sources (in distant space) than all discovered up to then.

Terrible temperature and pressure on Venus required ships and equipment of a kind never before made. This Venus research is a tribute to Soviet technical superiority which is never breathed in our USA-kept press.

Venus research is basic in modern astronomy, because science has no answer to this mystery: why did Venus and Earth, alike at first, change into radically different planets?

New Soviet spacecraft will no doubt seek the reasons. The *excellence* of their ships became apparent this year, when Salyut-6 ended its record flight of 1,775 days in orbit!

Do the "Salyuts" measure up to USA's "Shuttle"? The word today is that a Soviet "shuttle" is in the works, designed to cost about 90 percent less than the extremely expensive system developed by NASA.

You can easily get a distorted view of world space work, from highly "slanted" reports (or, often, *no reports at all!*) here in West.

This applies especially to many recent space failures.

European Space Agency still has to recover from loss of vital experimental communications equipment, when a USA "Delta" launch-rocket simply blew up on the pad.

The Japanese were once regarded as probable USA-rivals, because of their technical skills and ability to copy other designs. But their "Ayame" craft no sooner got up than it crashed into pieces of the rocket that launched it, an accident setting them back a long time.

Now India is furious because its vital "Insat-1" proved useless after the satellite, built by Ford in USA, just wouldn't function, when solar power unit failed.

Latest big flopnik: European space Agency's much-praised "Ariane", launched by France from Lourou (in Pacific), headed down into the ocean 9 minutes after launching. The kind of failure that "couldn't".

Certainly the USSR has experienced space failures. But *fewer* and *fewer* as engineering is perfected.

And in one field they are very far ahead: **manned flight**.

Will USA's *military* cosmonauts close that gap?

A war to end the world?

Blasting Sudden Death Down From Space

Seems that nothing could be more horrible than nuclear war on Earth. Now they want to blast us into eternity from high in the heavens. For hundreds of billions of dollars in profits.



As for "war in space", the USSR's view was given long ago, and crystal clear: **stop it before it starts**, with a treaty banning every form of space weapon.

That proposal was first made in 1958. In 1982 Reagan "answered" it by promising the USA an all-out program to get super weapons up into orbit before the USSR.

In 1963, 1967, 1972 and 1977 USA and USSR *did sign agreements*, promising to send up no space weapons of the kind that could then be made. Now, however, with new deadly space arms on the way, USA wants out.

In fact, long before President Reagan promised super weapons-in-orbit (when he "blessed" the new Columbia shuttle space-craft), USA *refused point-blank* to sign a provision in the "SALT-2" treaty, which specifies *no killer weapons in orbit, ever*.

In actual fact (as the USA technical press admits) Columbia is already taking military equipment into space. And the famous USA space scientist, James Van Allen, states frankly that the shuttle ship's major purpose is to carry out tasks for the Pentagon. Its former peaceful scientific research role is now downgraded to secondary experiments.

In 1983, experts say, Columbia will orbit a gigantic "spy" satellite, for military use.

To space scientists, however, "spying" in orbit is a minor job. The main drive is to get **electronic artillery** up there, capable of blasting the USSR with the kind of rays called **lasers**, or **particle-beams**.

Some researchers warn that weapons of this kind are *far away*. Others believe USSR has already *tested them*. In any case the Pentagon has been given between 400 and 500 million dollars for *starting up* such weapons.

Really ... *peanuts*. According to the high-level *Heritage Foundation* (Washington), mass-destruction from space will require no less than **50,000 million dollars**.

The USA generals who worked out this program call it "Assured Survival". With that much investment, they say, USA could **wipe out USSR** at the press of a space-button. And (of course) USSR would have no answering button.

Blasting life off the Earth (or off its Socialist areas) appeals strongly to military minds, because the use of nuclear weapons is both messy and dangerous to the user. **Rays from space** are nothing but **bursts of tremendous energy**: very clean, leaving nothing but the dead. No radiation, no contamination.

One possible catch: to build fantastic "ray guns" needed to blast a large part of our planet (the USSR is, indeed, very big!) would be rather costly. The figure given above (50,000 million) would not cover the total expense of this ultimate space-war weapon.

Then how much?

Well, say 50 "ray guns" up there, with power supply, *each one the size of New York City*, would cost tax payers of USA *some million million dollars*.

Who has it? Who could even print that much?

The millionaire's magazine *Fortune*, thinking in terms of actual profits-in-the-bank, has scaled down the Space War plan to a kind of Orbiting Navy. For starters, experts are planning 100 battle-space-ships which a new breed of ship-building corporation will gladly sell to Washington for a mere, 20,000 million dollars *each*.

Two truths stand out clearly.

First, even USA, using Reaganomics movie-style money, couldn't pick up that tab for space war.

Second, quoting *Pravda*, "It goes without saying that the Soviet Union will not tolerate upsetting of the existing military-strategic balance; it has everything necessary for its preservation."

So why all the noise about moving war into orbit?

By provoking the Soviet Union into "balancing" any space war threat from USA, the White House seeks to drive ahead with its **confrontation policy**, in order to **heighten world tensions**, and thus, in turn, **justify diverting hundreds of billions** to those corporations favored by the Pentagon.

No "security" will be gained this way. USSR has proved that it can "respond" surprisingly fast, to new arms threats. Many Western observers are predicting new Soviet rockets of **enormous thrust**. And a "shuttle" craft which may be superior to USA's Columbia.

Still, a new *space-arms race* would serve Washington's basic policy: **heightening tensions**. Many smaller nations would be indirectly "pressured" by such an armament drive, their security threatened as never before.

The 36th Session of the United Nations General Assembly, recognizing these facts, passed by a huge majority a **Soviet resolution** providing for an all-inclusive ban on any type of weapon in space.

Naturally, the USA voted *against*.

In the view of some scientists, the USA scenario covering a "ray-gun" war in space is *improbable*.

The warning given repeatedly by Leonid Brezhnev, about *the extreme danger* of playing around with revolutionary new weapons, is clearly grasped by scientists. They know that such weapons are not only *conceivable* but are in various stages of *development*.

You saw one such weapon reported earlier in NN — explosion of a nuclear bomb specifically designed to **paralyze all electronic equipment**, military and civilian, and thus not only "bring war to a halt" but also destroy our planet's energy and communications systems. Thus causing unimaginable destruction.

And in the view of some economists, any drive towards arming for space-war would be a *business disaster*.

That is most emphatically true for **Capitalism**. On a world scale, the profit-system's economies are verging towards **breakdown**, and diverting hundreds of billions from jobs to armaments could bring total collapse.

In turn, greatly heightening the danger of war.

There are no alternatives: human survival is Peace.

We welcome you joining the "conversation" here

Few people get to enjoy such a wide selection
of views from around the world, condensed below.



"In Sept. NN you printed my letter, but with an error. Last sentence should read 'I would not wear a pin, ring or tie-ring if 'NN' was plain on it.'" J.E.S.

Reply: Sorry for mistake! But very, very few Readers are interested in the "NN Pin" proposal. Unless quite a few write in to support it, now way it will appear.

"Stranger sitting next to me in restaurant gave me this copy of *Fortune Magazine*. You will get the "line" in this millionaire's paper: idea that USSR does not give its best war equipment to a conglomeration of Arab states divided by parties, religions, classes, etc." J.J.S.

"With this note I send Birthday Greetings to my Husband, on his 81st Birthday! Happy Birthday, dear Walter! Love." H.S.

Note: Awfully sorry that this Greeting could not get into the October NN. But let's all shout 'Happy Birthday, Walter!' even if we are a whole month late!

"In early days of Russian Revolution, Ivan Pavlov, the great scientist, cured a 23 year old woman of a mental disorder by putting her to sleep for 2 weeks. How was this done? I'd like to know if it's done here now, or in USSR? Can you ferret out any information for me?" R.H.

Reply: Years ago NN reported on Soviet "sleep cures". It's all covered in our Reports No. 728, titled "How They Cure People With Electric Sleep" (65 cents) and No. 449 "Sleep Your Way To Health" (65 cents).

"Just read little book 'Hundredth Monkey'. Deals with menace of nuclear war. But on P-78 there is startling statement about nuclear explosion in Russia in 1958. 'This area is now a wasteland and cannot be inhabited for millenia.' We figured it was a pure CIA fabrication, not published for fear of further impairing CIA credibility. Might we be right in this?" E.R.N.

Reply: NN covered that poney report some time ago. It has no support in the world of science, and you are probably right that CIA let it die as being too ridiculous.

"I recalled the many firm statements you made regarding that notorious 'cure' for cancer, Laetrile, when I saw that the first (we hope not the last) doctor has lost his practicing permit because he dosed patients with this fraudulent poison. But what struck me was the fact that the Health Department sat back while this criminal made (the papers say so) millions of dollars through charging terrific fees to 'save' dying patients. Of course he saved no one. Laetrile, which is extremely poisonous, has killed many. But I am glad indeed that the USSR's refusal to touch this quackery has been fully vindicated. Too bad that many, including some progressive people, were fooled by this quackery." N.K.

"V.I. Lenin, the greatest man who ever lived, said: 'Capitalism is dying, but in its death throes it can still subject tens and hundreds of millions of people to unprecedented torment, but no power on earth can prevent its collapse. It did collapse, in 1932, but FDR didn't want it to die so he propped it up with billions of dollars in counterfeit money. Growing signs of another major collapse that will be very likely to make the last one look like a Sunday School Picnic.'" P.H.

"As a lifelong fighter for peace, brotherhood and Socialism, I read many progressive publications. The one I always enjoy most is NN. Its hard-hitting analyses, warmth, and realistic optimism is a source of intense satisfaction." L.I.

"I am 65 years old and I realize that for 55 years of my life I have heard a continuous flow of bad things against USSR. Starting with my father when I was about eight, accusations against USSR never ceased. But suddenly one morning a world wide speech by Churchill told us we should support the valorous Soviet army for their destruction of the fascist armies setting Europe afire. As it turned out, all opposition to Socialism is disguised behind the denigration of the Soviet Union. NN is only paper in this country keeping up confidence in USSR." J.R.

"Enclosed clipping (*Washington Post*) tells how USA officially protests to Bangladesh because that country banned hundreds of drugs found to be ineffective, dangerous or too costly. How's that for backing 'freedom' in other lands? Get this: Bangladesh has the lowest life-span and highest infant death-rate of all developing countries, yet the people spend 60 percent of their 'health budget' on drugs. There's where 'freedom for profit' means 'freedom to die.'" L.A.V.

"Enjoy NN very much, read it cover-to-cover the day I get it. Is it possible to write to a Russian girl, as a pen pal? Someone in her mid-twenties. I am 35 and am thinking of taking a trip to USSR." N.R.

Reply: They don't distinguish between the sexes in arranging pen-pal correspondence. We don't have contacts but you might try Canada-USSR Association Inc., 280 Queen St. West, Toronto, Ont., M5W 2A1, Canada.

"With that millionaire lackey we have in the White House, it looks like he wants the poor people to starve to death or die from lack of health care. So he won't have to bother with them." P.C.P.

"Ronald Reagan and before him Herbert Hoover both said that a man should pull himself up by his own boot straps. Well, it seems that is what the people in Socialism have been doing for a long time. Hope to visit USSR soon." E.B.W.

"NN should be considered one of the greatest or the giant of world magazines. It's fantastic. For enclosed \$20 send material checked, and spend what's left on treats for lovely cat Maggie." A.P.

"Enclosed is \$50. Please extend my Sub a year and put the rest to pay for repairs to equipment, etc. Maggie is good 'public relations' representing NN!" E.B.B.

"In our local newspaper I read that of all nations, South Africa has the largest percentage of its population in jail, and USA is second. Thought NN might investigate this angle some time." G.A.L.

Reply: Certainly is a fascinating question and we'll start looking into it.

"If it's not too much trouble let me know what number of NN I'm paid up for." M.P.F.
Note: Many Readers ask for this information, but it really isn't necessary. We send you three separate notices when your Sub is running out, so you lose no issues.

"I understand there is no need for unemployment insurance in USSR, since they have no unemployed. But friends argue with me that in a nation of 270 million people, it's for sure that at least a few get streaks of bad luck and find themselves between jobs or for some other reason absolutely strapped. If they have no 'charities' over there, how do you live if you get into such a tough spot?" K.W.

Reply: No charity, but a department in each local Soviet (municipal council) has funds and staff to attend to all such needy cases. Usually functions along with Trade Union involved and in some cases with medical offices, if sickness is a factor. Main point is: these facilities exist, but so few cases come up that it's no social problem.

"I feel it's important to keep up with events so we can appreciate good changes, as in Grenada, and hope for the rest of the world to follow, without too much bloodshed. Please send any pamphlets you have on Poland, for mailing out to my friends." M.O.P.

"I come across people who get gloomy and pessimistic when they read about horrors like the massacre of Palestinians. But I tell them that all these horror tales originate in the West, in our capitalist system, and not in Socialism." J.A.

"I'd like to suggest to NN that you recall to USSR the 'Monroe Doctrine' of USA, and suggest that USSR also declare a similar 'doctrine' around the European Continent, warning other nations to keep out of the area and refrain from any interference." L.B.

No worries when they look ahead

LARISA KORYCHEVA OF LVOV might well be the next woman cosmonaut. Like Svetlana Savitskaya, she's a champion parachute jumper. When still in school she saw her first jump. Got a job at the airport just to watch them. Now her book has recorded 5,300 jumps! And world over-all parachute championship. Married to an air cameraman; four-year-old son.

PUBLIC TRANSPORTATION IS SO CHEAP in Socialism because it's subsidized as a social service. Revealed that part of this subsidy comes from high profits they make selling cars to people who want individual transport. Imagine how Detroit and Windsor would howl if they were taxed to keep bus and metro fares down to a dime!

DREADFULLY WOUNDED VICTIMS of Israel's war on Palestinian civilians are arriving in Soviet hospitals. Children are especially pitiful, with multiple wounds, many amputation cases. Some cannot survive hundreds of tiny wounds from "cluster bombs" made in USA.

"AUTOMATED DINING SERVICE" set up at big Kiev Elektron Machinery plant. Workers press buttons for dishes they want, and conveyor takes their order (on tray) to table area. Better still: you punch your order for tomorrow, then get it very fast. Average worker gets \$480 a month, spend \$22 on full-course meals for entire month. Worker's children here get all 3 daily meals in kindergarten for \$24 monthly. Many plants offer still lower-priced meals.

CANADA LOST THAT ORDER for atomic-power station, in Rumania, and USSR picked it up. Apparently two reasons. Soviet technology is superior. And Socialism doesn't have Capitalism's inflation-credit problems, so financing was arranged satisfactorily.

DON'T TELL PRESIDENT REAGAN, but that gas pipeline to Europe may be only for starters. Now being discussed is enormous electric-power supply from Siberia to West Europe. USSR produces cheapest power in world, and could "plug Europe in" to tap 116,000 kilometres of Soviet transmission lines. Europe would realize very great savings.

SLUMP IN "WORLD" AIR TRAVEL doesn't apply to world's biggest airline: Aeroflot of USSR. In 1982 alone Aeroflot started up 22 new routes. Enlarged many Soviet airports to handle increased flights. Planned huge new facilities in far-off centers like Syktyvkar, Karaganda, Magadan. Rare to find Aeroflot plane with empty seats.

SOVIET READING PUBLIC "REVOLTED" over chronic shortages of novels and children's books. So planners now promise that 1700 most-wanted titles will be issued in editions of *millions of copies*. Shortage hasn't been due to low production, but to rapidly rising level of people's education and incomes. Latest poll shows Soviet families today have on their shelves something like *40 thousand million* books. Soviet paper mills must find ways to step up output. (Here, bookstores are closing, the paper industry is folding).

WHILE OUR OIL DRILLERS ARE JOBLESS, in USSR they're on over-time to fill the 1982 order for 4,000 new wells. Total is about 13 million yards of drill-holes. Best Soviet teams can average 80,000 to 100,000 yards per year. New rigs may speed that.

NEW WEATHER DISCOVERY made by Soviet scientists, working in high stratosphere over North and South polar regions. A kind of "heat explosion" takes place sometimes at those heights, when temperature shoots up 40 degrees in a few hours. How this influences our weather hasn't yet been determined.

SOVIET RAILWAY TRAFFIC, on 85,000 miles of lines, is now five times more dense than in USA. Only way to increase it (as required by Plan) is to build tens of thousands of new king-size freight cars of every type. Tremendous orders for heavy industry, steel.

Almost every item their papers carry tells of continuing progress . . . as they've planned it.

ONLY 25 YEARS HAVE PASSED since Soviet scientists opened the Space Age with Sputnik One, but already the land of Socialism has put into orbit more than 1,700 spacecraft. A big new industry has appeared, never dreamed of back in 1957. Besides, space engineers have revolutionized communications and entertainment with satellites, and whole new branches of production, in space, are coming faster than anyone imagined.

A GIANT HYDRO POWER STATION, so big that it will dwarf the biggest in world (all in USSR) will be built on Lower Tunguska River in Siberia, not far from the site of the fantastic "Tungus Disaster" many years ago. Today, the Krasnoyarsk Station is biggest, with 6 million kilowatts output. But new one (called Turukhansk) will have a capacity of 20 million KW. Not very costly, either, since the Tunguska is narrow, very deep, with flow up to 1000 cubic metres per second. This power plant's reservoir will cover 1,300,000 acres.

SOVIET PORT OF TALLINN is only one in world where seamen are guided to safety by an atomic-powered light-house. Original model was first lighted in 1970. New one has atomic fuel that lasts 10 years. Light can be seen for three miles. You can hear its horn a mile away.

BRITISH FIRMS MADE A BIG SALE of special equipment for, of all things, paper-napkin manufacture. But not your usual deal. Machines supplied by Paper Converting Machine Ltd. will turn out 50 million packages of Soviet napkins yearly. While this sale was arranged, other major British firms, including Rolls Royce (aviation) were in Moscow discussing a large expansion in trade with USSR.

ELECTRICALLY DRIVEN AIRPLANE, designed by Moscow Aviation Institute students, showed remarkably promising flight characteristics. Has very high power relative to its weight. Uses an entirely new kind of battery. Plane is not full-size, and flies without human pilot. But design may lead to full-scale experimental model. Unlike usual aircraft engines, its power plant runs very long time without any attention.

"INTER-ELECTRO" is name of a "multi-national" company owned entirely by Socialist countries. Founded in 1972, it now arranges for each member country to manufacture specific electrical equipment, so all can benefit by large-scale production, standardized parts. Costs are continually falling. Today Inter-Electro produces millions of highly efficient motors, from very small to huge industrial models. Pooled engineering research guarantees continuous progress.

GREENHOUSES OF 90,000 SQUARE YARD AREA flourish today in Karelia, in very cold climate. State farm harvests 3500 tons of potatoes, many other vegetables. They get 90 pounds of cucumbers per square yard of soil, the "biological limit". Now doubling the size of this "glassed plantation". Part of general program to create all-year "Californias" in Soviet north for fresh vegetable farming.

A POWERFUL TRACTOR THAT FLOATS has been developed for Soviet timber industry. The TP-90 is quite unlike special lumbering tug-boats long used for rafting. It can push and tow large log booms, and can handle individual logs of any size.

BILLY GRAHAM DIDN'T GO THERE, but he learned first-hand from Siberian Christians that the Yakutsk region (Far North), which never before had any churches, now has a "community" of believers officially registered. This resulted from settlement of many thousands of Soviet people from other regions. No great numbers of church-goers, but enough to warrant recognition according to Soviet law.

"INVISIBLE MUSHROOMS", a new kind of fungus growth, have been developed by Latvian biologists as a means to combat aphids and mites that are deadly to valuable plants. This fungus, when dried, can be kept powdered for years, for use when needed. Proved absolutely harmless to man, animals, birds and useful insects.

BEAUTIFUL GEM STONES MAY BE USED to decorate buildings, as result of big deposits uncovered along route of BAM Siberian Railway. Mostly quartzites, but their color and brilliance is remarkable, ranging from black to crimson. Incidentally, the tomb of Napoleon is faced with Siberian quartzite, but no one thought it existed in quantities required for covering whole buildings, arches, subway stations, etc. It's very durable (far better than marble). Another new discovery is at Ioko-Dovyren, where dazzlingly beautiful emerald-color diopside are plentiful.

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