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NORTHERN NEIGHBORS

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1986
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Peace — Work — Freedom — Equality — Friendship — Health & Happiness for all Peoples!



You see here some of the world's leading astronomers, looking spell-bound at the TV screens which carry broadcasts from the Soviet space-craft Vega, over 100,000,000 miles from Earth and moving at 100,000 miles per hour past Halley's Comet. In all the long history of astronomy nothing like this sight had ever before been achieved. "For world science," said Dr. Fred Whipple, USA astro-physicist, "this will be a remarkable date." See inside this "NN" for further details.

Biggest Congress Ever

Pages 26-31

Medical Menus

Page 17

They Already Are Using Robots that "Farm" Like People

Page 10

Magnets Kill Cancer

Page 11

Steel Booming

Page 6

How you can expose the fatal flaws in "Star Wars" — Page 23

NORTHERN NEIGHBORS

The Magazine of Socialism in Action

GRAVENHURST — ONTARIO — CANADA

Canada's authoritative, independent magazine, reporting the U.S.S.R.

This is our 37th year publishing reliable, exclusive news of Soviet developments.

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CONTENTS

April 1986

Volume 30 No. 4

Space Turns Left	3
Congress Of Communists	4
Revolutionary Advance	5
Steel Supreme	6
Record Overlooked	7
Spring On The Land	8
Farming's New Appeal	9
Hired Man Robots	10
Cancer Therapy	11
Peace Collections	12
Powering Food	13
Their Ruling Class	14
Afghanistan's Reserves	15
Scientific Networks	16
Delicious Prescriptions	17
What Lenin Would See	18
Socialism In Partnerships	19
Science On Our Side	20
48 Health Ways	21
News For Spring	22
Star Wars Delusions	23
Strangers Meet	24
Winning With People	25
Historic Congress	26, 27, 28, 29, 30, 31
Congress Camera	32
Orders And Information	33
First Time Ever	34
Healthy Holiday	35
Try Siberia	36

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SPIRIT OF "OKLAHOMA" IN THE NEWS?

Somebody asked me if Soviet people ever get to see splendid musicals from the West, like *Oklahoma*. They surely do! And I told my friend that right now maybe millions are humming and believing "Everything's Going My Way!"

The way of the world's People. Have you noticed? First, Haiti. Then the Philippines. Congress voting down aid to the killers in Nicaragua.

And now the astounding Soviet triumph, getting Halley's Comet in first-ever photos. Followed by the great space-ship Mir. And then the first two-man crew moving into that ship, from Earth.

Long ago Joseph Stalin warned people never to get "dizzy from successes". But you can't blame humanity from enjoying that grand feeling which just couldn't be kept out of the headlines.

Socialism is winning.

MAYBE ALL THE WORK WON'T SHOW ...

There's quite a bit of effort in this issue of "NN". For a start you may enjoy pages 4 and 5. It condenses the whole new epoch which was discussed and approved by the Soviet Communists in their Congress.

Later you can turn to Page-14 and see just who those Communists are. Unlike dictatorial types handing down decrees from the Kremlin, the eighteen million men and women who rule the USSR are, literally, the people who live next door, or more often, right in the family. Virtually everybody in USSR is very close to their Party.

Hope you won't skip Pages 26 through 32, even if it does look like a lot of solid print. But if you do turn those pages, make sure you look them up sometime in the future, because what happened in Moscow (yes, in that Kremlin!) will be in the news for many a year.

VERY GLAD TO GIVE "PHOTO-CREDIT" HERE

So many Readers had nice things to say about the two photos of NN's cat, Maggie, in our January issue.

No question, the best pictures of her we've ever had. Well, thank Sally Carter for that.

She spent a lot of time and patience getting Maggie to pose that way. Results were really prize-winning. It was hard to select those two from dozens and dozens more.

Would you like to help us, with your views? Soviet people sure do love animals, and we're wondering if you would welcome a second collection of photos such as we issued in *Animals in Socialism*.

Drop us a line if you dig this idea.

THE SOVIETS ARE COMING TO CANADA!

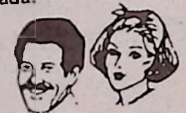
Biggest and best of all the Pavillions at "Expo-86", in Vancouver this summer, will be the Soviet display. See Page-34 in this "NN". Besides the pavillion you'll be able to enjoy the famed Kirov Ballet. But make all arrangements soonest! (P-34, please).

NN's Truth-of-the-Month: "The Soviet Union is our hope and aspiration. We learn staunchness and fortitude from the Soviet people who, for us are an example in their fight for freedom. In Soviet Russia a truly popular form of government has turned from a dream into a reality. The Land of Soviets is a true friend and ally of all oppressed peoples fighting against the evil forces of world reaction." (Winnie Mandela, wife of Nelson Mandela, long imprisoned leader of the African National Congress).

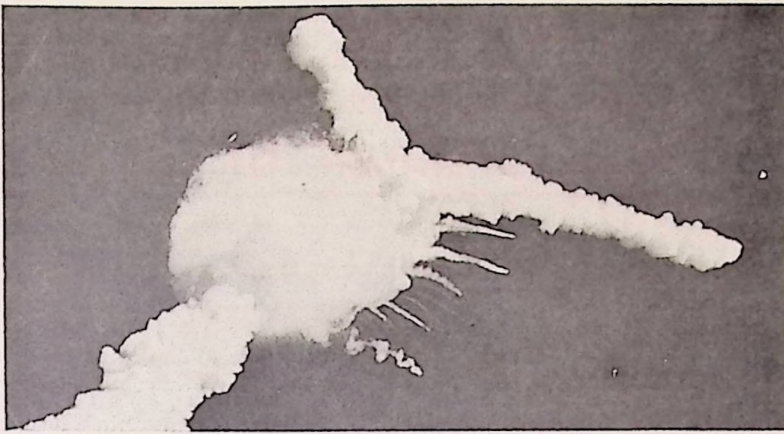
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You'd be surprised to find how many intelligent people "react" well to NN if they see it. We'll mail them copies if you'll send us their names. But, if you prefer, our "Four People Plan" still works. Send us four names-and-addresses, plus Five Dollars,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



“Challenger” vs “Peace”

On **July 20 1969** USA astronauts walked on the Moon.

In **1970-71** NASA gave in to the military and planned a gigantic “shuttle” with a “bay” 60 by 15 feet.

In **1972** President Nixon blessed this project and construction began in 1974. All tests went well through 1977.

But in 1978-9 they had many rocket fires, leaks, pump failures. Rockets worked okay by end of 1979.

But the “**Covert Report**” warned that test engines were not the ones to be used on the real Shuttle. NASA said all was “technically healthy”, while a top man in General Electric (Astronaut Anders) wanted the President to review it.

In **November 1979** Rocketdyne reported many weak welds, so in January 1980 the Shuttle trial was put off to 1981.

April 12 1981 Shuttle went up and came down successfully taking two astronauts on a two-day orbit.

On **June 26, 1984** total disaster was avoided in last few seconds when engine-fuel valve failed to open.

NASA decided to design new engines, but in 1985 the old ones took the Shuttle on nine successful flights.

In **July 1985** another near-disaster barely put Shuttle into a very low orbit due to a computer-engine foul-up.

On **January 1 1986** “Columbia”, after seven failures, made a six-day flight which was very successful.

On **January 28 1986** “Challenger” blew as no rocket ever had, and seven astronauts met instant death.

Hardly anyone remembered, but **back in 1984** Secretary of Defense Weinberger said flatly that the Shuttle was far too unreliable for USA to use it as a military space vehicle.

Seems **nobody** noticed that in Shuttle the fuel is stacked not only vertically (as in other space-ships) but also **horizontally**, putting the crew in extreme danger, a **faulty design** privately condemned by many scientists.

Amazingly, vital fuel-engine parts were **stuck together using putty**, one feature of the fatal joint designs.

Shuttle was supposed to be **much cheaper** than standard launchers of same capacity. Turned out to be more costly. Experts now report **billions** wasted on useless parts.

Many scientists now stress that with failures like the Shuttle, “Star Wars” could hardly be dependable, though the military was counting heavily on using it for space-war.

As for USA science, “Challenger” was a disaster. They saw 1986 as greatest year ever in *astronomy*, using fabulous Space Telescope to go up on Shuttle. Lost with it was most advanced **communication satellite** (TDRS-B), and this silences vital orbiting spacecraft.

As late as December 1985 *Science* (Washington) was boasting that Shuttle’s telescope would rival Galileo’s revolutionary sightings of the heavens 400 years ago! Well, at least no one is mourning their modesty.

By a freak of history, no sooner was “Challenger” gone forever than Soviet space scientists sent up “**Mir**” (Peace), a remarkable Station that can accommodate **six other craft** at one time. **Mir** joined **Salyut-7** in orbit.

Mir is a new *generation space-craft* intended to be a “work station” in Space. Lots of room for **men and robot** equipment. Will house actual **production** units (metals, electronics, medicines) as well as astronomical devices, Earth-surveying detectors.

As this goes to press, **Mir** has just been manned by its first crew of two astronauts.

Meanwhile: **Japan and Germany**, which had planned to take part in future Shuttle flights, both **cancelled** their manned-space research and told their selected astronauts to go home . . . “Don’t call us, we’ll call you”.

Scientists and engineers are privately, but frankly, saying that just as disastrous as Challenger’s ending is the **catastrophic effect** it’s having on the USA’s prestige in science and technology. This effect is worsening as the many “enquiries” go forward, and those on the inside get up courage enough to reveal the **incredible risk-taking** that has featured the Shuttle program from its beginning.

Only now starting to come out is the part played by *super-profit motivation that verges on outright robbery*.

You won’t be exaggerating if you say that the tragedy of “Challenger” discloses the **obsolescence of the profit motive** in today’s high-technology world. At every turn since 1970 the USA’s major Space effort has been sabotaged by corporations and individuals concentrating, *traitorously*, on the quickest way to the fast-billion-bucks.

Hardly had the front pages finished with those seven souls, who gave history its most spectacular execution, than headlines everywhere told of the scene which you see at the top of this page and on our cover: the wonder of the USSR’s **two Vega Spacecraft** who went out there and turned their TV cameras on **Halley’s Comet**.

Over 100 of the world’s scientists gathered, spell-bound, in those Moscow studios for the first-ever glimpse of a comet close-up, in color.

“It is a triumph, truly a triumph!” said Whipple, of the Smithsonian Astrophysical Observatory.

Triumph Number Two came days later when the second Vega gave its version of Halley.

Think: those Soviet cameras were **171 million kilometres** away from the men operating them on Earth!

If you’ve long believed that the Age of Science for Man belongs to Socialism, the news seems to back your view.

(Sorry to be so brief in this Report, but we’ll be following it with more details in issues-to-come).

What happened at the Communist Congress?

They decided on Full Speed Ahead for Socialism

You may be surprised by big changes they're making

1. The Soviet Communist Party, and the people, after very thorough discussion, have decided to carry through what they believe is a **fundamental restructuring of all aspects of the life of Soviet society**.
2. There never has been a major policy change, anywhere, that aroused so many people: more than 110 million men, women and youth publicly spoke for-or-against the draft proposals before approving the final version.
3. As you know, the western press published many items dealing with the Congress. Although most reports were distorted and misleading, still even Washington's propaganda machine was compelled to admit that the Congress was very important.
4. From the viewpoint of the anti-Soviet observers, this 27th Congress of the Communists of the Soviet Union stood out because it admitted that **Socialism had been slowing down**; people's real incomes had **stopped rising**; only in 1983 was there a **definite up-swing**, as a result of measures applied now on a mass scale.

Millions saw the Plan wasn't fulfilled

5. **Main difficulties:** not fully applying the Revolution in Science and Technology; obsolete management; managers and others unwilling to work in new advanced ways; failing sense of responsibility to the people; covering faults by revising the plans downwards (something absolutely impermissible in Socialism).
6. You shouldn't exaggerate their "slow-down". In the latest 5-Year Plan USSR's national income rose 17 percent, industrial output 20 percent. Living standards **did improve**, average pay for workers and farmers **did go up significantly**. Plans for raising "social expenditures", such as new housing, schools, day-care, actually were **over-fulfilled**.
7. Millions of Soviet families benefitted by tremendous new measures, especially for lower-income parents, including 10 million new apartments occupied at the world's lowest rents. Standard-of-living (including housing) improved very much over vast rural areas.
8. **The worst of the bad news?** Steel plants fell 35 million tons short of planned goals. Coal miners were 145 million tons short! Consumer goods worth 25 billion dollars just didn't reach the stores (not produced). Their construction industry seemed to get worse rather than better.

Farmers, scientists didn't rise to challenge

9. Maybe the two biggest disappointments Soviet people had in the last few years was in **agriculture and science**. This was all the more bitter because millions of their farmers, and thousands of their scientists did "**deliver the goods**". This pointed up sharply *the others who failed*.
10. At their latest Congress they stressed that many of their problems had been **piling up gradually**, for years, and could not be solved "overnight" (as many expected when the shakeup began two years ago). However, the big turnaround started in April 1985 (as you saw in NN November 1985). The conclusion then, based on real-life facts, was that USSR had **everything required** to achieve a "turning point" in Socialism's progress.

What you will be seeing from now on is a kind of second "Socialist Revolution". Not any single event, but a program for 1985-2000. Fifteen years, because a single 5-Year Plan cannot possibly achieve the goal they've set themselves: **to double the huge Soviet national income and industrial output by the end of our century**.

11. In the forefront of this remarkable program (no such growth is anticipated in USA by any authorities there) is the **scientific-technical revolution** which they are now mobilizing to radically change all aspects of their work and life.

Challenge never before thought possible

12. If you want to grasp the immensity of the new Soviet program, here it is in one line: **in 15 years** they are going to expand their economic powers more than they have done in **all 69 years since the Socialist Revolution!** And in these 15 years the living standards of Soviet people will rise to a totally new high level.

13. You should avoid trying to picture that life-change in terms of *our society*. Nobody in Socialism is planning to have 20-room houses and 3-car garages. Considering the housing crisis all over the Capitalist world, their plan to provide **every Soviet family with its own private apartment or house**, is exceptionally ambitious.

14. That's just to start with. In that period science and engineering will release 20 million workers from heavy monotonous labor. Not one will be unemployed. Trained for new skilled work, they'll play a big part in Socialism's national income, which will rise to **16,000 billion dollars**. (Hard to grasp? It is 16 thousand thousand millions).

15. If Capitalism can't contemplate anything like that, how will Socialism do it? By **raising labor productivity to higher levels than ever seen**. And, at the same time, **reducing the raw materials required** so that resources won't be exhausted and the nation won't be polluted.

An end to "braking", all for ACCELERATING

16. In its early years, for obvious reasons, Soviet people preserved their machines (and all other things) in order to get maximum use from them. This has left them with huge **obsolete factories**. They're already switching over to a policy of developing new equipment even **before** today's models are in production. The goal here is to **speed** the progress of Socialism in every direction.

17. Many millions of Soviet workers are **already** taking up this challenge, grasping the great truth that **labor and only labor** can take the advances of Science and apply them for the advantage of the whole people. The main factor here is not mere **progress** but **progress faster and faster**.

18. How this is going to be done **they already know**, from a great many experiments (some you've seen in NN this past year). Speaker after speaker at their Congress pointed out that detailed plans **already in motion** guarantee that the 15-Year Plan will be achieved before 2000.

19. For example, **their national income will rise to 860 billion dollars by 1990** (five years) and the volume of their industrial output will soar well past **one trillion dollars**. Only computers can handle such "measurements", and, fortunately, the computers have arrived.

People in highest positions, and many lower down, are in for severe shaking up, as wasteful methods are vigorously cleaned out

20. Because of tremendous resources (like oil, coal, wood) Soviet production has expanded just by **using more**. Now all management (including Republic governments) are warned to change their methods fundamentally. Immediately 10 percent or more of all raw materials must be **re-cycled (used over)**. And the aim here is not merely to save resources but to **prevent colossal damage** (stripping forests).

21. Linked with that problem is the urgent need to **stop producing poor quality goods**. For a long time the plans stressed only *quantity*, but now waste must be drastically cut by producing top-quality items only.

22. Example: With millions more cars and trucks, USSR has a perpetual "famine" of tires. Solution is obvious: improve the quality of tires and that will equal **millions more** that don't have to be made. Multiply that by a hundred other commodities and you see the fabulous "increase" in production which they'll achieve with **no real increase**.

23. Previously, Soviet planners have told managers to **stop wasteful practices**. Result? *Yawns*. But no longer. The CPSU is determined to inflict material (monetary) and moral (prestige, jobs) **punishment** on bored types. Maybe more effective: there will be substantial **rewards** (from top down to production-line) for all who solve problems of material waste and inferior quality.

As in Space, so on Earth, they'll lead in High Technology

28. Advanced production methods in many industries will be "far out". Such as using **laser rays**; "**membranes**" for separating valuable substances (and pollutants); super **high-temperature plasma**; super **high-pressures**; "impulse" processes employing **controlled exposures**; use of man-made **bacteria** in complex chemical processes.

29. Sweeping changes will be made in major industries, with a minimum of 5,000 automated production lines. Aim here is not only multiplying output but also **making work more attractive, creative**.

30. "**The future belongs to computerisation**", and so every aspect of production (industrial and agricultural) is going to be increasingly carried out by devices which **remember and control** much better and faster than human beings. Soviet children will become fully computer-conscious in school.

Powerful drive against slow-moving experts

31. Their 'People's Control' Commissions will have more power to see that new systems are used to the **maximum**: after revealing that some advanced production lines **don't even work a full shift!** This is doing great damage to the Soviet economy, and they're out to end this immediately, by actions of the Commissions.

32. Remarkable new materials to replace such things as steel, wood, concrete, will be speeded into production. They (along with techniques for using them) will **increase production 65 percent**, reducing labor and material costs by no less than **35 billion dollars** from now to 1990.

33. Many Soviet researchers and engineers came in for severe criticism at the Congress. All too often they **sit back and "wait"** for their ideas to be applied. Many prefer to leave "big ideas" alone, and make the motions of research with **petty schemes and projects**. These types are in for some rough surprises.

No foreign equipment replacing Soviet

34. Especially sharp revelations were made about those who prefer to spend millions on machinery made in the West, rather than use available new Soviet designs, which are often superior. One very bad effect of this is that it makes designers and researchers **lazy**, with the attitude "**if we aren't making it, buy it**". From now on the drive will be not only to make it but also to **use it immediately**.

24. The Congress struck a sober note with its brief attention to the **Armed Forces of Socialism**. Delegates were reminded of the fact that USSR has never spared materials or labor in defending the socialist world. But from now on **fulfilling the new far-reaching plans** has particular significance for the Soviet Army, Navy, Airforce and Rocket troops.

25. Their tasks with respect to the forces are linked closely with **accelerating scientific research** for every sector of Socialism's economy. This is not the concern only of the Soviet people. Their **allies** are already deeply involved in cooperation with all **Socialism's researchers**, because joint efforts pay off in **time and discoveries**.

26. The USSR has always "pushed" Science. Just think only of their Space leadership. Unfortunately, often management doesn't apply Science until Soviet developments are **copied and put into practice by capitalist nations**. This very harmful practice has to be eliminated, and all "barriers to the future" must be swept away.

27. They are **practical** about this. First, they'll concentrate research facilities on key objectives. Second, they'll rush new science-technology into practice before it becomes obsolete. Third, they'll make strong efforts to develop radically new ideas that will greatly raise the productivity of labor.

35. "Research among the workers" is a new development, in Socialism, and they're going to apply it everywhere. It arose from the **workers in production**. At huge plants like Electrosila, Uralmash and Ivanovo Machine-Tools, a new type arose: **factory scientists**. Not isolated individuals but **collectives** that have grown into large research-and-production co-ops.

36. They've got a **new task here**, something that has never appeared in Capitalism: how to set up jobs, laboratories, working conditions, that will stimulate factory scientists. Speakers at the Congress also stressed the importance of **incentives**. Recognition and prestige will do a lot, but the most highly educated worker-scientists are also *human*, and they should have **monetary rewards** for discoveries and applications that produce large profits for Socialism. This is not at all what some Western critics say: it doesn't make scientists into capitalist share-holders, but simply gives them a reasonable **bonus** for effort.

37. Worker-scientists "at the bottom" must act with **management at the top**, right up to economic Ministers. And the record so far isn't all that inspiring. "Top management must bear **full responsibility**" for seeing that high-tech discoveries, in the plants, are applied on a wide scale, often in **all plants**.

Soviet Science, lever to transform society

38. You appreciate the problems people face when re-making the world if you see how their Congress faced up to an **unpleasant truth**: "The USSR State Committee on Science and Technology *has not yet found its place*" in the application of new discoveries. The entire system of planning the use of Science and Technology "**must be radically reorganized**." And this involves many complex factors, including **financing, pricing, incentives**.

39. Despite all the difficulties they've encountered, still their Congress clearly realised (from many examples) that **Socialism has inexhaustible possibilities** for using the Science Revolution. The basic contrast here is that Science always **aggravates the social contradictions of Capitalism**, whereas the People's System, by its very nature, applies Science to great historic advantage for all, and its only restraints are **technicalities**.

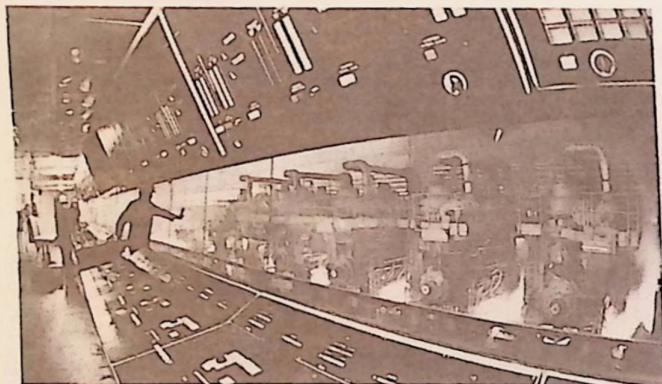
(Our Congress summary will be completed next month)

STEEL

You can't find a sharper contrast between USA and USSR, than Steel. No cold black furnaces in Socialism. New mills always opening. Meet young steel people of Lipetsk.



This is steel? Right. Huge new mills at Lipetsk are so pollution-proof that in the town's artificial lake you can count 37 different species of waterfowl.



At left: new mill here is the Soviet "2000" rated by some experts as the most advanced anywhere. It's automated. So is blast furnace. So is continuous steel casting unit. Very high labor productivity.



Workers in hot shops can spend weekends at this Union holiday-rest-home, not far from city. If doctors recommend this the health weekends are free. Otherwise there's a small charge that doesn't cover costs.



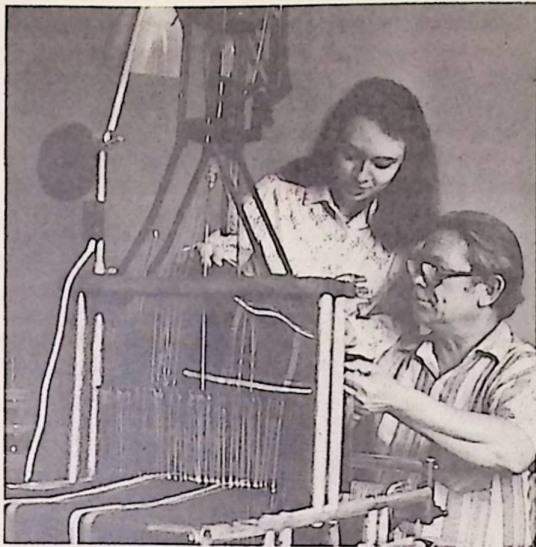
Mr. and Mrs. Priymenko, veteran workers at the plant, just received a roomy new apartment in housing built by the management. Mills director Mikhail Dergalev dropped in to celebrate with them.



Steelmen at a fashion show? Why not? No bosses and wives in Lipetsk, so who else should enjoy it... steelmen and women.



Steelers in Lipetsk are pretty young, so you find them in cafes and clubs like this. All that's missing is the booze, though they can have that at home if they want it. Music and dancing in evenings.



Another World Record

Soviet Union beats all countries for the number of unfilled jobs

While the West counts the cost of supporting millions of unemployed, Socialism loses some 200 billion dollars per year because of production that "isn't" — for lack of workers.

Effect is worst in transport, construction, and heavy industries.

Nearly everywhere in USSR jobs are hunting workers, not the reverse, as in our system

Above you see **Yevgeni Raszhivin**. He was head of an automation workshop when he was stricken with a serious illness. The union's medical staff told him he simply had to retire.

"I couldn't get used to being idle," Raszhivin says. "I felt I'd simply have to get work. Friends told me of a center that arranged for people to work at home. I chose weaving because it wasn't straining."

"So they bought me a small loom. Trained me to operate it. I got along pretty well.

"No, I don't earn much. But it is a real help with the family budget. Still, money isn't the main thing. Now I feel I'm being useful to my wife and daughter."

Yevgeni weaves scarfs. They're popular. So this one-man factory fills a real "social need".

In most Soviet Republics this work-at-home program is handled by the Ministry of Local Industry, through special Centers. These are being rapidly increased all over the country. It's now clear that both regular pensioners, and medically retired people, represent a truly vast reserve of labor.

In fact, the State Committee for Labor and Social Affairs is drawing up a special 5-Year Plan for utilizing pensioners who want to work. Either work at home, or work short-hours in regular production plants.

Already several million Soviet men and women, who reached retirement age, have chosen to remain at their place of work. Some work full time (if they get a medical OK for this) but many choose to work half-days. And some get transferred to work that is lighter than what they formerly did.

Many long-time disabled people fit into this program. **Oleg Smirnov** for example. He's a war vet. His home has long been a small-size plant. A big souvenir factory delivers to Oleg large batches of wooden toys and ornaments, plus supplies of colorful paints and brushes. He does the vital "finishing". His work is so original that Oleg's production is very popular in the stores.

Anatoli Nazarov, disabled by a serious ailment since he was 34, could have lived on his pension. But he chose to get a work-at-home job making locks for mail boxes. It's a job he likes, and the pay is good.

Mrs. Galina Tregubova took up "homework" after her second baby came. She doesn't feel "different" for the simple reason that a big knitting factory employs her ... **along with 4,000 other women making hats, caps and sportswear, at home.**

Homeworkers enjoy regular Soviet factory benefits: paid annual vacations, full pensions on retirement.

Many homeworkers are highly productive. **Galina** works on a miniature "programmed" knitting machine, regularly serviced by factory experts. She was trained for this in a special school. Disabled people who can't travel are trained at home.

No charge whatever for classroom or at-home training.

Raisa Inozemtseva says "I used to take homework with a grain of salt. But I decided to get a job, and quit after a while. My pension isn't too bad. But now I wouldn't think of quitting. I enjoy my work. And I've got a good extra income."

Typical homeworker production is in the clothing industry. Leather goods employ many homeworking men. But lately all kinds of domestic gadgets have proved to be ideal for home output. Pottery, too, is becoming a favored field of work, especially for those who are supposed to keep off their feet.

But the situation is changing rapidly. Several big enterprises have set up centers for designing the very latest production equipment, for use at home.

One important factor is **medical**.

Soviet specialists have long worked to get certain "disabled" patients back into socially useful production, since this can prove to be the finest possible curative treatment.

Irina Batura (at right) is a cutter in the big Progress Knitwear Plant in Minsk. Last year she reached age 55, and was entitled to full pension. But after thinking it over, she decided to get the management and union to keep her on full time, while changing her to a somewhat lighter job, just in case.

"My health is fine, and I don't even consider myself middle-aged. But this way I'll stay working for a long time.

"No, the pay isn't as high as I used to get, but I'm also getting my pension. So it works out very well."

With Socialism now launching an all-out drive for expansion in every field of production, working pensioners (healthy and disabled both) feel they are playing a vital part in the advance of their system. No wonder: *today every third Soviet person of pension age is holding down a factory or homework job!*



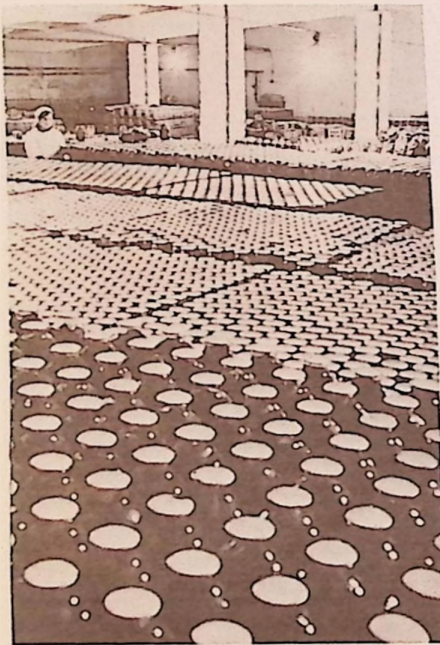
Springtime in Socialism



Main street in the Zarya (Dawn) Co-Op farm in Rovno region of Ukraine, typical of new spacious farm-towns.



Most Soviet Co-Op and State Farms have their own restaurants, because cooking at home is giving way to city-style eating-out. Another reason: first quality foods are served at lower-than-city prices because the farmers grow all the supplies.



Here's an "industrialized farm" that not only grows the stuff but has a big cannery turning out 3,000,000 cans a year and 32 juices.



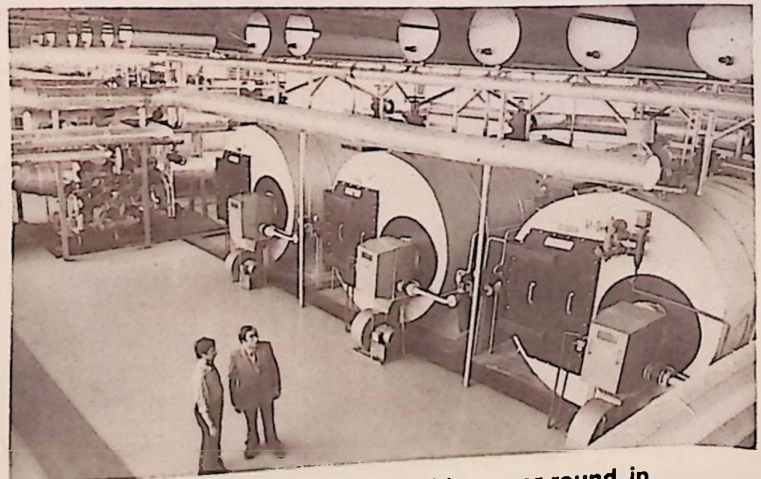
Chairman of "Zarya" Farm, Vladimir Plyutinsky (center) and Sergei Semenets, farm's own architect, discuss building plans with Vladimir Omelchuk, noted architect from Lvov. They're going over plans for a Sanatorium to be built for farm's families, in a pine forest on the bank of a river.



This spring is great for these two young mothers.



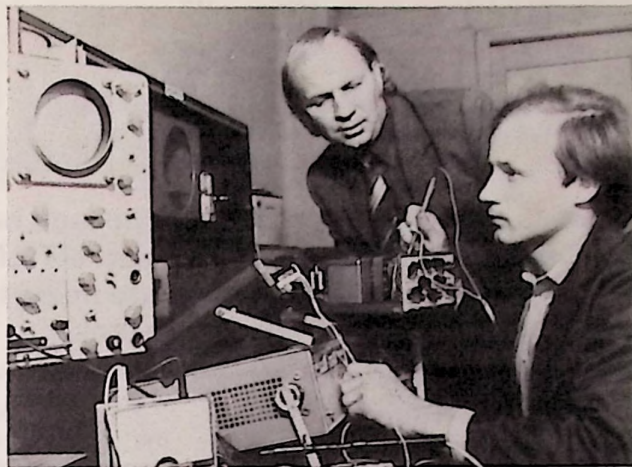
A late spring won't affect the crop in this huge 17-acres greenhouse. Highly economical, heated with natural gas.



To grow thousands of tons of vegetables, year-round, in greenhouses, requires "power-plant" equipment. More and more Soviet farmers now operate plants like this.



This beautiful sow is just one of 6500 pigs in one Co-Op. Recorded weight is 616 pounds: not enough.



Farm has to have its own electronics repair shop.



Nadezhda is herself a medical-college student, but she chose to come home to the farm to have her baby. The big Co-Op owns a modern hospital.



Vasily Mukomolets is one of the managers, also a gas-heat engineer.



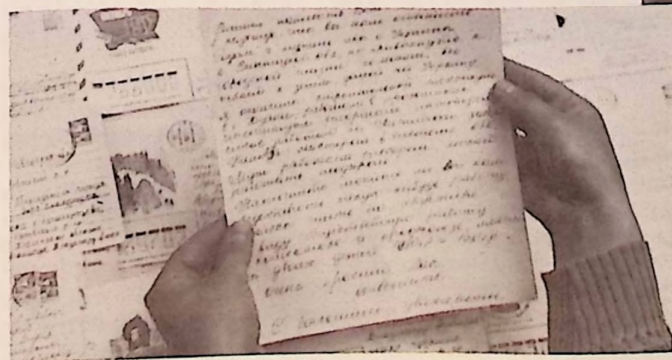
Operating room in the farm hospital. Most of the personnel were farm youth, sent to college by the Co-Op, then employed "at home". Can carry out quite complex operations here.



They call it their 'Palace of Culture'. It's a big place, accommodating movie-and-stage theatre, club rooms for cultural hobbies, and is center of social life on this farm.



Baby was the 4000th resident of the Farm, so the local Soviet (Council) decided to have a non-religious ceremony. Today they have many such events, and Alla Fedorchuk, Head of Ceremonials, welcomed the son of Vasily Datsyuk (machinist) and his wife Galina (laboratory worker).



At left: farming is regaining its popularity in the USSR, and the best Co-Ops and State Farms get a steady flow of "applications" from city people.

Robot Farmers

Sounds silly? Putting robots on the land has been studied scientifically in USSR since 1977. Here is an up-dated report on what they're doing today. And the formidable problems they're tackling.

On paper, farmer-robots have all the advantages of factory-robots. Fast acting. Tireless. Can work round the clock for days, weeks. Bitter cold or blazing heat doesn't bother them. They can even work in the pitch dark.

Maybe you haven't seen robots; but thousands of them work in factories today. And in the depths of the oceans. And far out in Space.

But not on farms.

A scientist will say that's not quite true. Tractors are really robots that plough seven times faster than a horse.

However, try to *speed up* tractors much more and you get excessive vibration and dangers to the human operator.

There's the catch: the human farmer who, today, is involved in all mechanical farm procedures. It may be humiliating, but the fact is that humans are **much inferior** to modern robot-machines.

On the other hand, humans can do farm jobs **impossible** for robots: like picking delicate fruits when they're exactly ripe.

Even worse: in a factory or atomic power plant robots work with **absolutely stable things**, while on the land the situation **changes greatly all the time**. Like a violent rainstorm, or a sudden killing frost, or a cow stricken by a serious disease, or an outbreak of insect-infestation.

The **complexity** of farming you see in the 3,500 **different machines** that are used today in a partial attempt to robotize work on the land.

After nearly 10 years of research into this problem, Soviet scientists conclude that robots for farming are **absolutely necessary** if agriculture is to rise up to the demands of advancing Socialism.

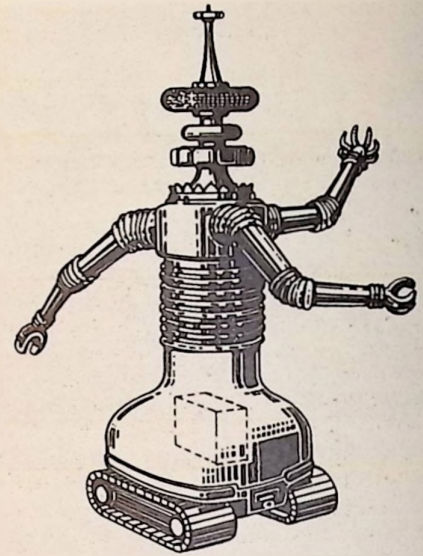
It turns out that the problems aren't how to make robot farm machinery move (tractor, cables, air-cushion) or "see" and "feel" like humans. The great difficulty is to make a robot that can **reason**, like a farmer.

For example: suppose a robot is confronted by an **aggressive cow**. How to evade a ruinous fight?

Or, a pig decides it likes the robot's rubber "hands" and promptly eats them. Would it happen again? Which pig?

Consider a simpler problem: How can a robot decide which tool or device it needs for the next job? Should it carry all tools that may be required that day? How about fitting complex tools, checking them for wear, cleaning them?

Of course, you'll say that a robot could be very useful even if it lacked human reasoning. True. Already the Institute of Agricultural Production has a **pig-barn robot** that feeds the animals, cleans the barn, sterilizes it, does all loading and unloading. And can even identify sick pigs ... and **diagnose common ailments!**



This robot has two arms, highly flexible hands, travels fast and accurately, has rotating microphones for ears, color TV cameras for eyes, and a computer which accepts many different "job programs".

It's in production because it does one hard, dirty farm job well.

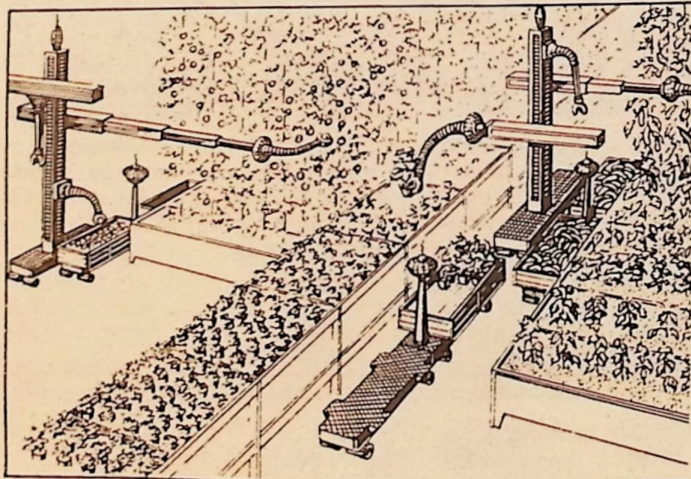
They also have a **poultry-breeding robot**: from incubation to sending birds to market, with no human labor involved.

Cow-barn work? Yes. Not simply milking machines, but real robots that keep a record of every cow, handle feeding, and do the milking, according to each individual cow: can be recognized by what the robot feels and sees on the udder!

Sheep-shearing is a natural for Soviet robot-designers. These machines "grade" wool before shearing; then shear with maximum efficiency; then air-clean the wool with vacuums and prepare it for shipping.

It seems probable, from this work, that the immediate stage ahead is **specialized robotization** on their farms. All equipment is already available (from industry).

But there are many farm jobs that robots won't handle, *tomorrow*.



In the drawing at left you see one Soviet robot element that is going to be mass produced. It looks like the trunk of an elephant. And works like one.

In fact, not only can this robot-elephant pick the tenderest fruits without damage, but it also has a "nose" that analyzes smells, so only ripe fruits are picked.

It can see, too. By borrowing from nature, this robot-elephant turns out to be more efficient than any human worker. It can do other jobs, also, because its "trunk" is very strong, flexible.

Possibly the biggest attraction of robot farm-hands, in USSR, is that these machines are first going to replace men and women from **the hardest, most undesirable jobs on the land**: the kind of work our farm-owners turn over to immigrant families. And the robots will attract educated youth, who will design and service them, giving the coming generation a whole new concept of farming.

Killing cancer magnetically

Too bad, our media haven't reported this remarkable new Soviet research. Probably you know someone who could gain some hope from this discovery. The long-awaited "breakthrough" in the war against cancer may come sooner than we think.



As you no doubt know, not only in USSR but in all advanced countries many scientists have been studying the effect of **heat** on cancers.

The treatment with heat is called *hyperthermia*. It is far from being simple. Soviet research has been going on for 20 years and only now has a big advance been scored.

Please note that hyperthermia is *not yet an established treatment*.

But in some cases Soviet doctors have watched "miracles". Example: in a four-hour treatment a serious cancer growth *disintegrated* while specialists watched. In one Leningrad research center they've treated several hundred patients, with one or two hyperthermia "sessions", and the majority were cured.

The basis for hyperthermia seems straightforward. Healthy body cells resist high temperature much better than cancer cells do. So, heat can destroy a malignant growth without damaging nearby tissue.

Actually, hyperthermia was used very long ago, in the days of Hippocrates. And the idea of using heat to cure human ills came down to us in the form of saunas, steam baths, poultices, heat pads, etc.

Dangers soon became known. Many people can't tolerate heat, which is very bad for some heart diseases. And really hot treatments can strain the body like the heaviest forms of competitive sport.

However, the use of high-frequency electric currents, which can produce very localised heating, has lessened the dangers of using hyperthermia.

Again, this is *not simple*. The Leningrad specialists even use **computers** to select the kind of heat-treatment that seems to fit each individual patient.

Yes, they've investigated the possibility of using heat to **prevent** cancer. That idea is based on the fact that cancerous cells appear, by themselves, in the human body, approximately once per week.

Most of them disappear quickly. But if any remain, could hyperthermia eliminate them before they spread to form malignant growths?

So far, this is pure speculation, but Soviet researchers aren't leaving any possibilities unexplored.

Other research is directed at the long-known curative effect of heat on wounds and other body damage. Ulcers, especially, respond quickly to heat, but using this form of hyperthermia to treat *internal* ulcers is not yet an approved therapy.

Major successes for hyperthermia, in USSR, are treatments for parasitic diseases which are common in the eastern Republics.

The general method is to use heat along with anti-biotics. Germ-killing powers of anti-biotics can be greatly increased by using hyperthermia, and the time for treatment is reduced.

But this is only our *introduction*.

The newest and most outstanding development in hyperthermia is the Soviet discovery that **magnetically active substances**, injected into the bloodstream, can be used to produce any desired temperature within a cancerous growth. The magnetic "powders" (usually iron dust) can be **sent straight to the growth** by the use of magnetic fields. Then a form of electric radiation (such as a high-tension pulse) will produce **any desired heat** at the point of treatment.

Dr. Vasily Gudov (really an engineer) is credited with much of this Soviet research. Several years ago he had this "brainwave": **directing** ferromagnetic substances to a specific small point within the body, and then using **high-frequency radiation** to produce the desired **high temperature** in the tumor but **not** in surrounding body (healthy) tissues.

Sounded wonderfully simple. But years of patient study and experiment were needed to learn how to "dispatch" the magnetic substance to an exact "target". Years more, to find how to control, and measure, the temperatures within cancerous and healthy tissues.

The work was helped by a discovery made back in 1979, by the USA researcher Price: cancer cells have some kind of "attraction" for iron. Gudov applied this to find that cancer **metastases** (malignant cells broken away from tumors) could "absorb" ferromagnetic substances and thus be targets for controlled heating.

Incidentally, Soviet scientists have discovered that it isn't necessary to *inject* the ferromagnetic material; it can be *inhaled*. In work led by Dr. Yuri Semenov, tumors in the **lungs** have been treated by *hyperthermia*, by radiating the iron taken into the lungs.

Some lung tumors have been destroyed **within 24 hours** using this method.

But the way of cancer research is never, ever smooth. Dr. Andrei Malenkov quickly found that the **speed** of cancer destruction, using ferromagnetics and heat, itself raises problems: the remains of the destroyed cancer cells must be removed very quickly, otherwise they produce serious infections, difficult to treat.

Here we have named a very few individuals. But this research is so complex, and its results already so exciting, that many of the USSR's outstanding laboratories have become involved.

Even **space scientists** are working on it: especially to use astrophysical instruments capable of measuring temperatures with extreme accuracy, without being in actual contact with the healthy and cancerous cells.

Important though it is to carry through the work on all forms of cancer, some Soviet researchers are already applying the magnetically-directed heat to the treatment of **other serious diseases**. Promising are attempts to relieve heart and artery ailments "magnetically".

They give for Peace



Mikhail Kryochkin, a machinist in Gorky, was awarded 7,500 rubles for an invention. He gave it all to the Peace Fund. Thousands give such unexpected income to save "our peaceful skies".



World-famed ex-champion of chess, Anatoly Karpov, is chairman of the Board of the Peace Fund.

They don't have any charities in Socialism. No 'United Way' drives to collect millions, almost like compulsory taxes. But they do have their memories of war. And they do collect for Peace. 'Peace money' goes into their Peace Fund, which finances the countless projects aimed at preventing war.



Every day the mail brings the Fund bags of personal jewelry, usually gold and diamonds. Everything of value, from wedding rings to stamp collections.



USSR's best song groups often put on special concerts with the proceeds donated to the Fund.



Sometimes young people (like here on Rossya Farm) collect Peace Signatures.



With or without money, the mail to the Fund comes by the bag-full every day. Letters often appear in the press.



Finest artists donate their works. Here Leonid Koroteyev opens a big exhibition of valuable new paintings, donated.

FOOD FROM POWER PLANTS

For some time many Soviet power stations that burn fuel have supplied heat (normally wasted) to fish-breeding farms. But a new nuclear energy plant, at Kursk, which produces over 4 million pounds of quality fish per year, is going to start all-year-round fish production.

Plus a revolutionary system for boosting farm crops.

There's more to this than food. Scientists have long known that the vast amounts of heat poured out into the cooling systems of power stations is a form of **pollution**. In the USSR alone, the heated water from power plants is a gigantic "river" with a flow greater than that of the Volga!

Warming that much water is harming the environment. In many places **natural** fish-breeding is being **wiped out** by warmth: weeds, algae, harmful bacteria multiply swiftly in warm waters, to the point where even chemical dosing has little effect except to cause **further pollution**.

In several places in USSR research solved this problem by breeding **new varieties of fish**, like carp, which feed on plant-life. Their silver carp and grass carp, introduced into an overly-warm reservoir, can quickly remove weeds and then tackle bacteria, so the water becomes fresher than it was originally.

This is *not* costly. Actually, because the carp are very tasty, the operation is *profitable*.

Up to now, however, this kind of fish-breeding, using waste heat, has been practical only in springtime and summer. The goal of many researchers is to develop **year-round** fish production, even in cold climates. In other words, they are out to make fish-breeding not a mere anti-pollution system, but a big-scale food-production enterprise.

Fish will be only the "first stage".

From the fish-growing centre the water (still warm) will flow into advanced types of green-houses for growing vegetables. Even the crop wastes (vegetable tops) will go to special warm chambers where bacteria will convert them into nourishing food . . . *for the fish in the first stage of the process.*

If this sounds a little dreamy to you, note the kind of production carried on for years, at the big Sormovo Power Plant in Gorky. Its "cooling water" circulates through a big carp farm, where these fish grow **three times faster** than normal. Production is now 2,000,000 pounds of carp yearly. Besides, the fish-farm delivers to Gorky consumers over 400,000 pounds of **choice trout**, per year.

Those new greenhouses they're planning at the Kursk Station will be very cheap to make. They'll be heated by **spraying the roof** with warm water. Some engineers believe it will be most economical to make "greenhouse towers", which they say will cost 40 percent less than the usual spread-out buildings.

Next door to the vegetable-growing towers will be large warmed **mushroom beds**. At Kursk they plan to deliver no less than 800,000 pounds of mushrooms per year from each acre of bed.

Finally, the biologists are going to take wastes from fish processing, plus vegetable wastes, and use microbes to convert the muck into **highly nutritious fodder for livestock**.

The whole scheme is so attractive to Soviet planners that they've commissioned similar enterprises for the big new South Ukraine nuclear power station.

You should note, however, that *any thermal power plant* can use the supplementary food system, regardless of the fuel which heats its river of cooling-water.



But all this may sound tame, in comparison with the latest radical proposals from Soviet power-food researchers.

They are working on systems which pipe the power-station cooling-water **under the ground**: to supply ordinary farm soil with heat.

Laying a system of buried pipes (plastic) is far cheaper than building greenhouses. And the farms can proceed with their regular planting, cultivating, fertilizing, harvesting.

Tests show that in a cold region like Kursk the **growing season can be extended by more than two whole months**, using free heat from the power station.

This is equivalent to "moving" the farmlands *very much farther south*. Like getting a California or Florida.

Because the temperature of the water, and its rate of flow underground can be controlled, farmers will be able to "dial" the warmth they want for whatever crop they plant.

Take a look at the **scale** of this proposal. The one Kursk power station can easily warm up **10,000 acres of farmland!**

Probably the system will make possible two or even three harvests per year.

These aren't guesses. Research at Kursk proves that the estimates are well within practical limits.

In fact some planners are already thinking of land, heated by waste power-plant cooling water, in terms of **millions of acres**.

Other researchers are studying the use of warm waste-water to be added to **irrigation water supplies**. This would be equivalent to **warming the climate** in zones of the USSR which are too cold for many crops.

If you enjoy big figures, try this. The total warm water available from Soviet power plants, in the near future, will exceed **40 cubic kilometres yearly**.

And how much is that? If you can picture it, that water is equal to 200,000,000,000 **cubic feet**.

Or, an area of 200 billion square feet covered with warm water one foot deep.

Another interesting fact: the Kursk scientists figure that the **extra food produced**, using waste cooling-water, will be worth almost as much as **the entire power output of the station!**

Now that's making pollution really profitable.



18,000,000 RULERS

We're told that the Communist Party rules the Soviet Union. Correct. Intelligent people need to fill in the details.

Like it or not, the Communist Party of the Soviet Union (CPSU) is the largest and most powerful political party ever to appear in human society. It has had a decisive effect on modern history.

Just 69 years ago, when the world's first Socialist Revolution began, the CPSU had only 24,000 members. But within a year 350,000 people joined.

Twice, ill-wishers predicted that the Soviet people would "rid themselves" of Communists. First, when Lenin died in 1924. Result? Party membership doubled to over 800,000. Again, when the Nazis overran much Soviet territory in 1941. What happened? At the end of the war Party membership had increased by millions.

This year when the CPSU held its 27th Congress, the full count of members was over 18,500,000.

If you don't include children, you will see that a big majority of Soviet families have close relatives who are Communists.

This is the factual basis for their claim that the CPSU is the Party of the entire Soviet people, and thus functions as people's rule.

Socialism is the system that is created by and for working people, who are the owners of the entire national economy. This is reflected in the CPSU. Today some 8,000,000 Party members are workers in production. Alongside them are more than 2,240,000 working farmers.

Both workers and farmers have added greatly to the Party's membership since World War Two.

But at the same time millions more "white collar workers" (engineers, managers, scientists, teachers, doctors, nurses, artists, performers, writers, soldiers, sailors, etc.) have become Party members.

And so, not only in total numbers, but also in every field of life, the CPSU can justifiably call itself the Party of the entire people.

This is worth your consideration. Politically, Socialism is ownership and rule by the people. Political power lies in the hands of the Party. But their Party is unquestionably "everyone's Party" of working people. Because there is no class in USSR "outside" the people (particularly, no class of capitalists) there can be no other party. That's the situation. Any other party would represent nobody, and would thus be ridiculous.

As it is in life, whenever you discuss this topic with Soviet people they always refer to ... "our Party".



A big problem in the past was getting Soviet women to join the Party. But because of Lenin's warning that the Socialist Revolution cannot succeed without women, who are, indeed, half the people, the Soviet Party paid great attention to advancing women-at-work.

Today, hundreds of thousands of Soviet women and girls are admitted every year. Well over 5,000,000 of them now belong to the Party.

"We are the Party of the Future," said Lenin, "and the Future belongs to the youth."

One of the biggest changes in the CPSU since the War you can see in this fact: today three-quarters of all new members admitted by the Party are young men and women.

To Soviet people there's more here than meets the eye. They see that youth coming into their Party by millions shows that the Party has inexhaustible strength. This is one of the main reasons for people over there so often expressing total confidence in the CPSU. With the youth, their Future is assured.

Let's look at the "opposite" side. Our media are fond of picturing Soviet Communists as doddering old fogies. Actually millions of Soviet Party members are 25 to 40 years old. Millions more are middle-aged. Less than three million are over 60.

What we in the West know least about is the nationalities in the CPSU.

Each Republic in USSR (15 of them) has its own Party. (The Russian Party, by far the largest, has a "national" status so they count only 14 Parties). But so great is the "ethnic mix" in the Soviet Union that the Parties of Ukraine and Kazakhstan both have members who belong to more than 100 nationalities!

Other Republics have Communists of 70 nationalities. Even the Regional Party in Moscow has representatives of 100 ethnic groups. But there are no distinctions made between these many peoples. To them and the people they represent at home, it's all the same: our Party.

As for Communists at work, their occupations are no less than every kind of job in the nation. The only change in recent years is that members working in Science are multiplying, as the Science Revolution progresses.

Aside from their jobs, what do Soviet Communists do? They work, politically, in "Party organizations". These are groups of members, ranging from a dozen or so in small enterprises up to hundreds in big plants, farms.

Democracy in the CPSU? Well, out of 18 million members, over 5 million of them function on elected committees. That's a million more than back in 1976.

Discussing the 27th Congress, the Party held 1,500,000 meetings! And at those gatherings, thrashing out Congress policy, 11,000,000 Party members stood up and spoke.

New allies for the Afghans



Our papers have reported on the sharp increase of CIA spending in the Afghan conflict. Now running at 250 million dollars this year. And far from everybody in USA ruling circles is happy about this "escalation" of that far-away conflict. It's being heatedly opposed by some prominent members of Congress.

Indeed, some observers forecast that the new stage of "warfare" in the Afghanistan region is going to shift public attention away from Latin America. Arms are being poured into Pakistan for use against the Afghans and the Soviet forces defending that country. To many in USA, this is a very dangerous situation.

First, a familiar kind of protest: huge sums of cash are being handed out to various "rebels" based in Pakistan, and to prominent Pakistanis also, and much of this is finding its way into Swiss bank accounts rather than into armaments and pay for the "troops".

As a result, the many different groupings of "rebels" in Pakistan bases are increasingly hostile about the division of spoils. But these squabbles only hide the greater danger which Pakistan is now keenly aware of. Major groups of armed men are joining forces to aid those who are openly in opposition to Pakistan.

Who?

The main threat comes from the people of **Baluchistan**. This region (actually a nation) was included in Pakistan's territory when the British took it away from India back in 1947. For many years the liberation of Baluchistan seemed only a dream. *But India's dream came true.* And today thousands of Baluchistan youth study in the USSR, where liberation is in the history courses.

But first, turn to the **Pushtun** people. These tough fighters feel they are closer to the Afghans than to the Pakistanis. They've warned Pakistan not to carry out anti-Afghan operations from their territory. **Which is around the famous Khyber Pass** (where Britain and India lost whole divisions of men).

As this is written, the fighting has become violent in that area. No Afghans or Soviet troops are involved, the battles are **all within Pakistan's borders.**

The Pushtuns are holding conferences about this.

- At Bars (inside Pakistan) they warned that further use of their territory against the Afghans would no longer be tolerated.

Washington has the jitters. The Afghanistan situation is turning against USA and Pakistan.

Not a word of this in our press, but the struggle of Afghanians against "rebels" backed by USA is being transformed into a war of liberation for other peoples in this strategic area.

Sooner or later the media will have to introduce us to the Pushtuns and the Baluchistanis. They're already at war. Not against Afghans, but alongside them. An introduction to tomorrow's news.

- The Momand tribe demanded that anti-Afghan "rebel" camps be removed completely from the large area which they control (inside Pakistan).

- The powerful Afridi tribe of Pushtuns was more forthright. It warned the regime to clear out of its territory all Afghan "rebels"; or else the Afridis will launch a war of extermination against them.

As you see, all these decisions are, in essence, **strongly pro-Afghan.**

But they are very worrisome to Pakistan and USA because many Pushtuns (like the big Kakar tribe) live in that part of the country which is **actually Baluchistan.**

In short: the struggle that has developed around the Afghan situation is **bringing together the Pushtuns and the Baluchistanis.**

Neither USA nor Pakistan admits it, but the movement for national liberation of Baluchistan is growing steadily, fueled by the wonderful successes of the Afghans since they liberated themselves.

You wonder: how important is all this, in a region so primitive as the Khyber Pass?

Check the facts. Though now part of Pakistan, the country of the Baluchistani people is vast. It reaches from the Arabian Sea to the borders of Afghanistan and Iran. Actually it is a **key nation** in a most vital part of the world. It's no secret that the Pentagon wants Baluchistan as a replacement for Iran, a **tremendous base for a "Rapid Deployment Force"** to threaten the entire Mid-East.

Already the region has huge USA airfields, a seaport, military roads and communications networks.

And the Baluchistanis want out of this.

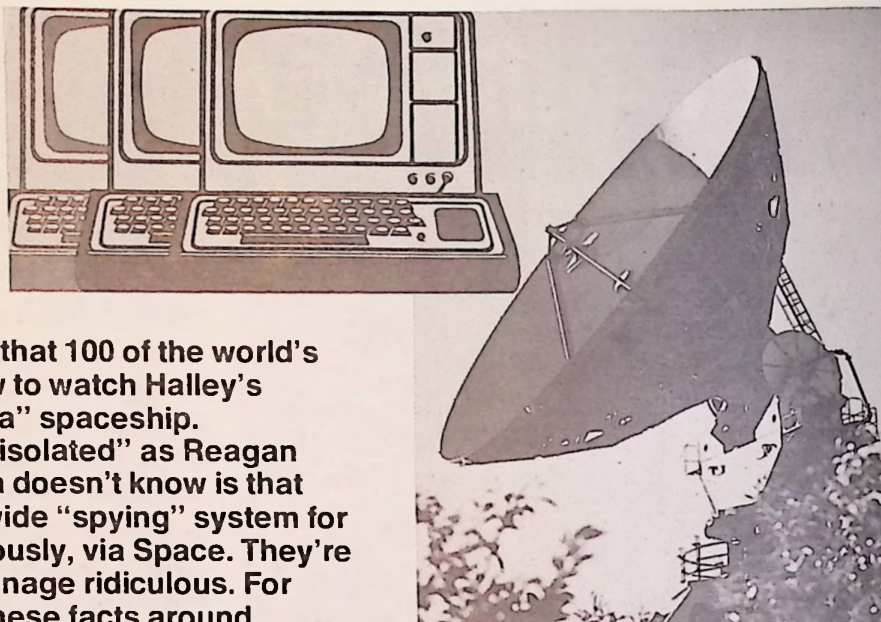
Believe it or not, but Washington is so concerned about the situation that it supplies 50 foreign radios with propaganda in the local languages . . . 200 hours a week, and the people nearly all have transistor radios.

Besides, "Voice of America" supplies six hours a day of propaganda in the Pashtu language.

All of this frenzied effort to stifle the national liberation movements which have, almost overnight, begun to sweep lands that were long felt to be "safe" within the Pakistan dictatorship and its USA controllers.

Naturally, the people of Afghanistan are greatly heartened by the rise of allies around them. The prospect of a Free Baluchistan is a nightmare only to the people's enemies.

Science is Spying



“Associated Press” admitted that 100 of the world’s top scientists went to Moscow to watch Halley’s Comet, thanks to Soviet “Vega” spaceship. Obviously, USSR isn’t being “isolated” as Reagan demands. But what the media doesn’t know is that scientists are using a world-wide “spying” system for talking to each other continuously, via Space. They’re making the very idea of espionage ridiculous. For surprises and smiles, show these facts around.

Even scientists are amazed by the way **communications-via-Space** are revolutionizing the exchange of facts, ideas and discoveries. On computer screens people doing advanced research, anywhere in the world, can contact others, anywhere else.

No “travel bans”. No threats by CIA agents. Just a screen and voices coming through from out there.

It’s already *instantaneous*. You turn it on and somebody else’s computer asks what language you use, what your international “number” is, and in seconds the screen says “Okay!”

First, the world center zips through your previous communications to find out *what you’ve missed*, in your field of research. If you wish you can see letters, speeches, reports, you haven’t had. Amounts to asking *what you’d like to “spy on”*.

Is this futuristic dreaming? As you read this, just in Europe’s “science teleconference network” there are some 200 research meetings going on round the clock!

Some “meetings” may be small. But astonishing. Like six famous scientists, on six different continents, are telling each other *what’s the latest* and *what’s the most*, in their field.

And they haven’t stirred out of their chairs.

And **nobody** knows what’s going on except themselves.

More amazing: the science conference centers are packed with computers that hold the communications sent (previously) by **thousands** of participating researchers. Just ask and you’ll be **given** whatever you want.

Just as you may choose tonight to watch a boxing or skiing event in Ber-

lin, a scientist up the street may decide to see what he or she has missed in the USSR’s “hydrogen power” project. In Moscow? Leningrad? Novosibirsk, Kiev, Yerevan? It’s all the same, all the “programs” are bouncing up and back through Space communications satellites.

No it’s **not** like **phoning** via Space. Scientists can plug in anytime it suits them, and “tap” a vast store of facts and ideas and research news that is kept in the computers’ memories.

More. If something hot interests you, press a button and a computer **printer** on your desk will type you a permanent record of whatever you want, on paper.

So where’s the secrecy gone? The sound you are hearing is hearty scientific *laughter* ... from six continents.

Never mind secrets. Think of **money**. The savings are tremendous. Ordinarily conference “fees” alone often run into thousands of dollars (plus air fares, hotels, meals). Plus **time**.

NN learns that right now more than a dozen tele-conferences are held regularly between 400 scientists round the world, **including USSR**.

Let’s leave alone such fields as aviation and space-rockets and nuclear energy, and look at the revolutionary work being done on “**Bioconversion**”. Turning farm *garbage* into highly nutritious feed for cattle.

The top 100 scientists in this field have exchanged 700 communications, including to-and-from the USSR.

Aim? How to use **100 billion tons** of polluting waste each year, with a potential value of ... **billions**.

Latest Bioconversion tele-conference drew scientists from Europe,

Britain, Canada, USA and USSR. Plus Philippines, Japan, Finland, Guatemala, many more.

So many news-reports came in that it was **impossible to summarize them!**

Most important: many research centers, unknown to each other previously, decided to make permanent link-ups via teleconferencing.

Perhaps you’ve noticed an **omission** here. Putting aside governments, military secrecy and espionage, what about **profits in scientific research?**

This could turn out to be the high-explosive element in this new system of scientific communications. Consider just one example: **converting waste straw into industrial alcohol** (raw material for big industries, and also potential fuel). Several giant multi-national corporations have been after this for years, since it is worth untold billions.

Tele-conferencing revealed that a British group working in Finland has bypassed the whole problem. Instead of converting straw first to sugar, then to alcohol, a **new man-made bacterium turns straw directly into alcohol**.

Hundreds of scientists saw at once that **many such bacteria** can now be discovered. Profits there will be, no doubt whatever, but super-profit going to a **monopoly** in this field will no longer be feasible.

The great majority of scientists are motivated by the urge to discover, to win honors, fame. They’re unlikely to give up tele-conferencing *just for the protection of profits!*

You can view this another way. The new system of communications, by researchers, is a **blow to industrial secrecy and espionage**.

No wonder Soviet planners are stressing **revolutionary Science**.

Have another helping — they're Medicines

Soviet doctors have sold millions of people on the truth about "treatment". Instead of popping pills, why not eat and enjoy your vitamins, minerals? It's surprisingly easy.



Here we offer four delicious foods, which give you the "medicines" you see pushed in ads for "supplements". The beneficial nutritional elements in these foods are far better absorbed in your body than any drug-store pills. None of them will have undesirable side-effects. If you eat these for food, at mealtime, then you actually get their treatment-effects for free.

No one has suggested that the obvious good health of the average Soviet person is the result of eating lots of potatoes. But it could be. Because USSR is the world's largest grower and consumer of spuds: *one hundred million tons per year!*

However, nearly half the world's potato harvest goes to feed animals. The fact is that we'd have far less meat if we didn't harvest 300 million tons of potatoes in 130 countries.

Unfortunately, over here the craze for "slimming" has led many doctors (who should know better) to condemn this highly nutritious natural food.

Just a small amount daily will supply 60 percent of your body's need for Vitamin C. Plus lots of potassium (for the heart). And iron, phosphorus, iodine, Vitamin B.

Potatoes are also a valuable source of protein. Which is why those meaty steers thrive on spuds.

Eat them any way you like. But it's a fact that boiling and baking leave most of the Vitamin C intact, while frying removes some.

Health-fans call potato chips *junk food*. Well, USSR nutritionists are behind the current massive Soviet program to process a huge portion of their crop, into chips. Oil, you see, is also nutritious, so our teen-agers aren't as dumb as faddists make out.

Involved here is a vital factor in Socialist scientific nutrition: the human appetite. If you enjoy a certain food, cooked a certain way, it will do you far more good than munching raw granola.



Incidentally, only one disease, in USSR, calls for cutting out potatoes. And that's obesity.

Heart patients are urged to get enough potatoes each day, because of their potassium content. People taking drug-store potassium (ugh!) might like to discuss this with their doctors.

Dill for health? We think of it only in dill pickles. But dill by itself is prescribed in USSR.

Sprinkled on salads and soups it is very good. Nothing new.

But mixing finely chopped dill with butter gives you a pretty, tasty and nutritious sandwich spread.

Mainly, Soviet doctors say, dill is a stimulant for digestion. And it aids in eliminating body wastes, as a natural laxative.

But they also use dill seeds in treating some common kidney ailments. Tablespoonful of seeds, half cup of boiling water, let it stand 15 minutes. Take a tablespoonful five times a day.

You can buy the seeds. But growing the plant is more rewarding, if you dry it carefully. About five days in the sun. Few days in the shade. Then bottle in dark glass jars, kept out of the light.

Pickled dill is flavorsome only; little beneficial qualities.

Of course we all know "carrots are good for you". But *how good* is only now being appreciated by nutritionists. In USSR they give carrots very high marks nowadays.

When you eat a carrot it's like getting a costly prescription. For glucose (energy). A lot of cellulose and lecithin (bulk). Valuable oils. Plus...

Calcium, potassium, magnesium, iron, copper, phosphorus, iodine, cobalt. All recognized as essential nutritional elements.

Carrots also supply vitamins in groups B, C, D and E.

It's important to remember that when you eat such "elements" in foods your body will absorb far more of them than when you put them into your stomach in pill form. Pills contain chemicals, whereas foods supply you with complex natural biochemicals which "fit into" your metabolism.

What are we leaving out here?

Carrots are rated tops by many Soviet nutritionists because they are so rich in carotene: in the body this changes into "Provitamin A", about as close as you can come to a *Vitamin of Youth*.

Provitamin A is what preserves your eyes, your skin and other vital tissues associated with keeping young. *Carrots are ideal snacks.*

A favorite dish served at Soviet health resorts is freshly grated carrots flavored with a tasty vegetable oil mixed into sour cream.

Mushrooms a "luxury" to you?

To Soviet people they're the most delicious medicines you can take.

People ate them for health's sake long before science discovered why.

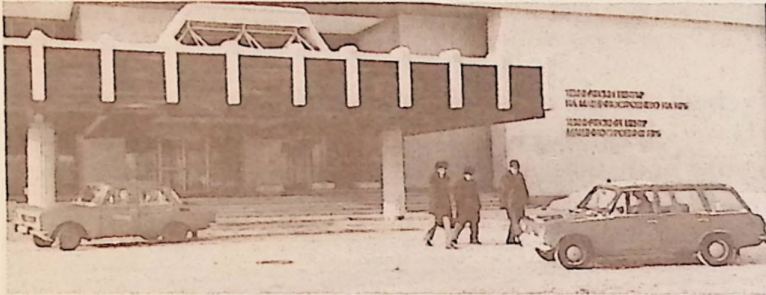
Why? Well, they give you Vitamin PP, which our experts say doesn't exist, but Soviet biochemists know is very good for people with troubles of the digestive tract.

And mushrooms are better than many fruits and vegetables as sources of calcium and phosphorus... needed by older people, for their bones.

Add them to meats, soups, fish, stews, sauces.

Better, cook them gently in butter and add them to you.

116 Happy Returns, Lenin!



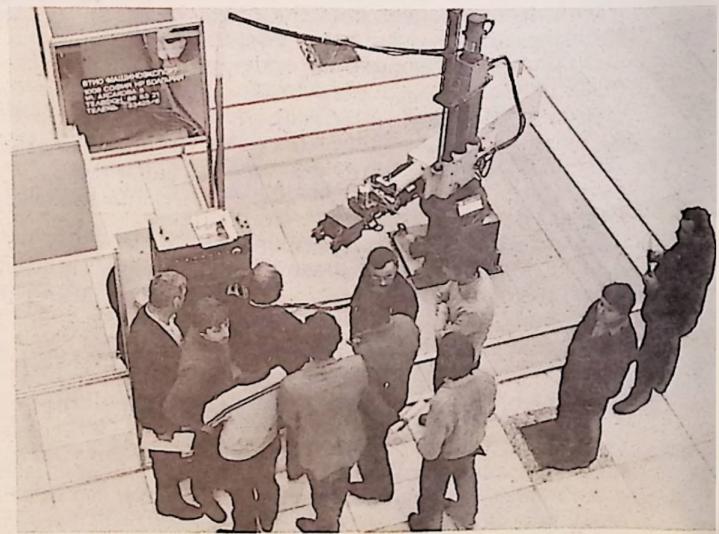
The Technology Centre in Moscow. Recently it was the meeting place of thousands of "high technology" specialists, coming to see the latest equipment . . . from Bulgaria. In Lenin's time, not a single country was allied with the Soviet Union, and the coming of a World of Socialist nations was only a dream. Now the USSR's allies are united in a technological drive to make Socialism the leading system in all major industries.



Leadership in Space exploration involves Bulgarian scientists, and here one of the youngest demonstrates computer control to Soviet pilot-cosmonaut Grechko.



Advanced computer centre equipped by the Bulgarians for use in design bureaus in all the Socialist countries.



Naturally the latest Bulgarian industrial-robot attracted much attention. Its "hand" can pick up a rose so gently that not a petal is harmed. It also has a very powerful grip. It can be programmed to carry out many factory tasks.



At left: each of these exhibits demonstrates Bulgarian high-tech in industrial applications. In a way this tribute to Lenin, who prophesied that Socialism would achieve final victory over Capitalism only when its workers achieved the world's highest level of productivity.

Since April 22, 1870, the "birthday" celebrations have broadened every year. Suppose Lenin could return for his 116th! Nothing would make him happier than to see Soviet people allied with a new Socialist nation.



Young students getting introduced to the latest thing in truck controls, developed by "Balkanar", big high-tech Bulgarian research and production centre. New fork-lift trucks are going to the big Soviet truck production plants at Kama. They're complex, electronically, so the drivers must take a special course.



An entirely different kind of technology is demonstrated in this section of the Bulgarian display. The firm "Machino-Export" specializes in laser-ray applications. Here a sceptical woman researcher, who is affected by arthritis, decides to risk a "treatment" of her finger-joints. The demonstrator is using just one of several new medical-laser instruments now being sold in many countries.



Computers are revolutionizing the race for productivity improvements, because they can design machinery not by trial-and-error but actually "on command", developing new equipment in minutes, saving years of hard work.



Dr. Lyuben Kozlev (Bulgaria) hands out diplomas to students from Soviet Armenia, who've completed a new course set up by Bulgaria's unique "Bio-Invest" company.



Here's a scene from many Soviet schools today: older pupils sharpen their skills with computers by teaching the youngest. A whole new generation in the Socialist World is bringing about a radical advancement in production efficiency... Lenin's fondest dream.

How Science Backfires On Capitalism

Whether it's big-time Science, like the Shuttle, or mass-produced TVs, the USA gets nowhere trying harder, and Soviet analysts believe they know why.



In the Soviet view, you cannot exaggerate the radical effects Science is going to have on our lives, from now on. What's happened lately is only a *preview*.

We're going to see an **enormous leap in new forms of production**.

Formerly, there were three "trends" in the progress of Science.

— "Small" developments (like in communications) came in a steady flow, so we hardly noticed them, until radio and TV brought major life-changes.

— Radically new developments (like satellites) burst on us suddenly, as when the *whole world* watched the Olympic Games, and saw all the wars going on, every night.

— Truly revolutionary discoveries, penetrating every aspect of life and work: **electric power** is a good example, and today another revolution is upon us, as "informatics" multiplies enormously our powers to collect and use information of every kind, "instantly".

Next? Scientists are pretty well agreed that new **man-made materials** are due to change the world, physically. And **changing living things** to suit our needs will be like "the Creation" all over again, the way we want it.

But the Science Revolution does not fit into the shape of society run by Capitalism. (You may have seen that in your editor's book some years ago). On the contrary, the Science Revolution worsens the basic ills of the system that operates solely for maximum profit. Examples:

• **Personal consumption lags behind production:** mainly because the profit motive compels capitalists to pay people *less than what they need to buy all they can make*. Consider the grim situation in computers, with warehouses choked by "surplus" machines which many could use beneficially.

How Soviet Communists direct Science today

Instead of "theorising" let us take a specific example. The big "Institute of Super Materials" in Kiev.

Some 4,000 scientists and engineers work there. Headed by Dr. Yevgeni Bondarev, who is both a famous scientist and a leader of the Communist Party of Ukraine.

He has **652 Communists** working with him. They were the discoverers of **industrial diamond synthesis**, a major scientific break-through and vastly profitable technology.

Today, the "Super Materials" scientists of Kiev are in close touch with 9,000 Soviet enterprises. Introducing them to **1,500 inventions** (including 300 patented in the West).

Since the last Soviet Party Congress (1981) Bondarev and his fellow Party scientists have admitted to the Party 52 new members. Chosen for **their research and their public activity:** meaning their efforts to popularize the revolutionary new (low cost) diamonds, for industrial use.

Their's is no "closed door" Party. All 4,000 researchers in the Institute are invited to discuss the ability and character of each person recommended for membership in the Party. Only highest qualifications win out.

• **Anything not profitable won't be developed.** Right now there is a real slow-down in Space science in USA, and they didn't even bother to send an observer-satellite to the Halley Comet, losing a vital opportunity to take part in a high-prestige experiment in astronomy.

• The Science Revolution greatly speeds up **obsolescence in major industries**, and this wipes out invested capital on a vast scale. Witness the "steel heart" of USA closing down as the former giants cannot cope with new technology.

In its own "fight-back" USA faces two grim facts of life. First: the balance of social and economic progress in our world has **shifted to Socialism**. Second: to "save" capital the USA and its allies are **slashing social gains** they made over many years before the Science Revolution.

Naturally, the richest capitalist class on Earth is not sitting back waiting for the roof to fall in.

USA is using the tremendous resources and capital of the "multi-national" corporations to maintain its leadership in the capitalist world. And, at the same time, Washington strains every financial muscle to guarantee that the dollar remains "currency dictator" of Capitalism.

But one-by-one the Big Sectors of the profit system are slipping away from USA. Just see what has happened to **steel, textiles, coal, oil, electronics, agriculture**.

What's basic here?

All the maneuvers of the major capitalist powers are becoming **less and less effective**, on a world scale, as the Science Revolution re-makes **one industry after another**, and profits conflict with the new social demands of our time.

The very ways Capitalism tries to cope with the Science Revolution lead to a worsening of its grave problems.

Today, almost half of all those working in the "front line" research laboratories are Communist Party members.

They have a double duty: not only to make new scientific discoveries but also to see that they are **applied in vital Soviet enterprises**.

This is *fundamental*. Of course they promote all developments that are profitable to Socialist industry. But, unlike the big research centers in Capitalism, **profit is not the decisive factor here**.

Will a new development benefit Socialism in any way? If it will, then even if it makes a whole production-line obsolete, it must be introduced; provided output and quality rise, with evident benefit to the system.

Last year, the Institute scientists set up 240 training centers where 14,000 leading industrial workers learned how to speed new diamond-using technology.

Purpose of this? The new diamond tools will raise worker productivity **600 to 800 percent!** And these tools last 40 to 50 times longer than the ones they replace.

The Science Revolution on Socialism's production lines.



Some of the finest Health you want need not cost you a single dime



All over the world our Readers tell us they get remarkable benefits from practical Soviet health methods. Low price of our Reports is usually your only expense.

"Natural Rhythm" — Different approach to a fascinating way for improving life, based on your unique body. 740
"7 Holiday Foods From USSR" — They're not only delicious but healthful, will broaden your outlook on nutrition. 743
"Why Our Air Is Killing Us" — Bigger problem than "pollution", and here are ways to protect yourself. 750

"Better Have Baby At Home?" — All who are considering this should first get views of Soviet specialists. 321
"Breathe Your Way To Better Health" — Not the usual "deep breathing" routines but broad new scientific system. 751
"Why They Prescribe Sea-Weed" — Major nutritional benefits come from eating highly mineralized sea plants. 761

"Hunger Way To Health" — Even if you've tried fasting, this reasonable approach could be best for you. 843

"Your Dreams Might Save Your Life" — Fascinating, experimentally proven way to avoid sudden serious trouble. 844

"Good Looks And Good Health" — Easy "system" can pay astonishing returns in appearance, vitality. 845

"Borshch Moskva" — One of the most highly nutritious soups (a meal!) you can make from this famed recipe. 846

"Parkinson's Disease" — No self-cure here, but very helpful facts from top researchers in USSR. 847

"Are You Safe With Sugar?" — It's best for you to decide on basis of facts presented to Soviet people. 848

"About Epilepsy" — Help yourself or others to cope with problem using findings of researchers in USSR. 849

"About Arthritis" — If you've tried everything the Soviet no-nonsense approach may be very big help. 851

Features that make our Reports so popular: while they stress ways to prevent illness, they also give methods that relieve, cure.

"Lose Weight Burning Body Fats" — Many claim this, but here is method which should deliver the pounds-off. 762

"Colitis" — Major illness for millions, this can be tackled effectively if you see exactly how it's done. 763

"Cabbage for Stomach Trouble" — Drugs aren't used in this simple effective way to prevent, cure the problem. 767

"Stress" — You know it harms health, but here's modern scientific approach that can get you results. 768

"Bad Behaviour In Small Children" — Can be serious health problem, as we all know. Practical ways out. 771

"How They Bring Up Their Youngest" — Goes very well with Report 771 above, revealing very effective methods. 772

"Bronchial Asthma" — Makes life grim for millions over here, and these Soviet methods are worth trying. 785

"Sun and Health" — This could inspire you to go after major benefits waiting (for free) in the heavens. 786

"Fighting Mental Disease" — Ways they try in USSR give new hope to patients here, plus faith in themselves. 789

"You Don't Waste Your Time Sleeping" — Uplifting scientific advice for all who like to "turn over" Might well put you on track of health. 793

"Talk Yourself Into A Better Life" — Here's new Soviet approach to powerful force of "self-suggestion". 796

"Neuralgia and Bursitis" — Extremely painful ailments are brought under control by using these methods. 805

They have huge network of clinics and hospitals in Socialism, but still their top specialists advocate self-help for best health.

"Keep Your Own Heart Running" — Advice of USSR specialists is backed up by their effective self-treatments. 808

"Hypnotism" — In case you are thinking of trying this treatment, brief yourself first with facts. 809

"Grow Your Own Body Organs" — No, not right now, but here's optimistic outlook in USSR, compared to "grafts". 812

"You Must Get Vitamin A" — A most overlooked nutritional element may be what you are lacking now. 852

"Secrets of Long Healthy Living" — Given to you by those who made it past 100. Surprising and helpful. 853

"Steam Baths & You" — Before you try baths, better check of long-time studies made in Soviet Union. 854

"Life-Saving Vitamin B-15" — It's not recognized here, but you'd better note these impartial findings. 855

"Vitamins To Stay Young" — This gives the "prescriptions" which Soviet doctors hand to people past mid-age. 856

"You Can Get Rid Of Weariness" — Without any drugs or costly treatments. Surprisingly effective, simple. 857

"Walking Or Jogging?" — Soviet view on controversy that is splitting our medical and fitness experts. 858

"Fats Safe With Vitamin C" — Approach here can restore your meals with foods you like, and safely too. 868

"Might Well Be Vitamin You Need" — Rarely prescribed here, but could make a big difference in our health. 869

Nothing in life is so wonderful as gaining better health, and that explains why people in 81 countries order, re-order these.

"Varicose Veins" — Embarrassment to many, but it's practical to get rid of this very common trouble. 813

"Drinking Tea" — Traditional for millions, in USSR, tea is also seen as a genuine health drink. 814

"Kvass and Keffir" — Outstanding for health, these refreshers you can make yourself; full directions. 815

"Food, Not Fluorides" — Nutritionists in USSR say you can eat your way to the best of dental health. 817

"Enjoy Food & Stay Healthy" — This is terrific advice: to eat enjoyably and avoid repulsive dieting. 837

"Vitamin E" — If the controversy over here confuses you, their findings in USSR may be real blessing. 838

"New Oxygen Tonic For Health" — You couldn't find more unusual recipe for refreshment and better health. 839

"Sexual Failure In Men" — Frank and helpful advice on widespread problem. Their views are different. 840

"Ginseng" — Now taken by millions the world over, here's scientific view of specialists in Soviet Union. 841

"Cataract" — Whatever you've been told, it may well be worth your while to get findings of Socialist doctors. 842

Single Report 65 cents, postage free. Any 10 Reports for \$5.00, postage free. Any 20 for \$8.00, postage free. All 48 Reports above for \$15.00, postage free.

The good Spring weather fits their News

Soviet papers start people talking in a cheerful way

One new city per month was the score for Soviet builders during the 5-Year Plan of 1981-85. That's not counting new construction in older places: two million apartments went up there (as many as in all capitalist Europe). Soviet people are used to the situation out on the Amur River (Far East), where a brand new city has been built before it is named. The inhabitants mostly work in a giant new fertilizer plant there.

A "radio-thermometer" for human beings is the latest pay-off from Space research. All living organisms emit radio waves. Very difficult to pick up. New device will detect one-tenth of a degree rise or fall in temperature. This makes it possible to discover unhealthy changes in any part of the body, before symptoms are noted. One centimetre (one third inch) can be the "border line" of a trouble spot. Already used to detect high blood pressure and some forms of arthritis in people thought to be healthy.

Maybe a wonderful new sport: shooting avalanches. In mountainous countries small cannons have long been used to deliberately start snow avalanches which might kill people. Now Soviet mountaineers have found they can use a special rifle to start small snow-slides before they build up to avalanche size. In the Chegut area of Caucasus Mountains they're having "avalanche hunts"! A few marksmen can start a slide every minute. Said to be really thrilling. They even shoot the slides from helicopters.

All sports records are going to fall, says Dr. Afanasy Chogovadze, head of Control and Remedial Gymnastics in a big Sports Medical Centre. "Man's capabilities in sports are unlimited" he claims. So young men and women have a wide-open field for achieving "world's best" records in the future. He points to the amazing gains made since the early 1950's, when Sports Medicine first became an independent science. Today, USSR has 600 (!) Sports Medical Centres, and they've produced many record-breakers. Dr. Chogovadze believes "the last word" will come not from coaches but from medical sports specialists.

Don't be tempted to invest in a Ginseng Farm, as many have in Canada and USA. Soviet biochemists have found out how to make cells of ginseng roots produce the highly valuable medicinal substance that has made ginseng famous for centuries. First batch of a "ginseng solution" has been sent to medical factories. In this process a "crop" can be produced every month, instead of years required in natural conditions.

It was a bad winter for snow and thaws in Moscow, and the cost of removing the stuff (from 4,500 streets and squares) went past 45 million dollars. But people just talked about it; they had no worries, because nobody pays any city taxes in Socialism.

Shepherds with millions in their flocks now make constant use of Space Science. New system of photographing mountain pastures, in Azerbaijan, enables herders to take their flocks only where the grass-growth is richest, avoiding poor areas. Space photos can even predict what's coming a whole season ahead. Saving is tremendous.

No shortage of crews for Polar Sea Route. First, the new Soviet ships don't need much on-deck attention, so storms aren't so bad. Then, pay is three times higher than on southerly routes. Finally, each year brings a six-month vacation with pay.

There are now 70,000 seals thriving in Lake Baikal. Nobody knows how the seals got there originally; probably arrived from Polar waters a million years ago. Baikal is land-locked, world's deepest lake (fresh water). It has been kept so free from pollution that the seals are exceeding the lake's feeding capacity. Two solutions: controlled hunting in certain areas, plus huge sanctuary in south with some feeding.

Leningrad steel-mill scientists have developed an alloy of steel and aluminum without the extreme fragility of previous materials. Secret is rolling the alloy at extremely high temperatures. New Soviet furnace-mill changes structure of metals. One vital feature is a system that cools the super-hot alloy almost instantaneously, "freezing" its valuable new properties. Another alloy is **chronvagol**: chromium, vanadium and gallium, which has amazing electrical properties. These radically new alloys are being applied to micro-electronics industry.

Latvians have cut their open-sea fish catch by one-quarter, but with no drop in fish-products output. Secret: they're rapidly expanding "fish farming" on rivers, lakes, reservoirs. Newest "farms" grow fish almost on industrial production-line basis. Added bonus: fish reserves in the Baltic Sea are increasing.

Newest, very popular TV program is called "Problems, Searches, Solutions", when top leaders of Soviet life (usually Ministers) answer people who phone in with queries and criticisms. In one evening lately they had top management of environment, forestry, science, water conservation. Already proving very effective in speeding up efforts to achieve the sweeping new goals of Socialist system. Program scheduled for 90 minutes, but it went on for 120 minutes (no commercials to interrupt).

Big construction program in rural areas is really moving, with 10 million square yards more housing to be built than in last 5-Year Plan. Imagine: they're going to build 10,000 large modern schools by 1990.

Number of factory, farm and office workers in USSR has gone over the 13-million mark. That's just about the entire able-bodied adult population, not counting students. No other country has been able to achieve anything like this victory over unemployment.

Tremendous increase in "reindeer horn drug" is coming from a discovery by Reindeer State Farm workers in the Pakhachinski region (Kamchatka). Horns of maral, red, and sika deer have been used since ancient times for treating many ills. But the stuff is not plentiful. New drug is obtainable from ordinary reindeer, if horns are taken before they "ossify" (get bony). In fact, medical scientists at Far Eastern Research Institute report that the unossified horns of the common deer (there are tens of millions of them) are more potent biologically than the mature horns of the rarer deers. Bonus: deer with horns removed grow faster, healthier, weightier, which is great for herders.

Leonardo da Vinci's famous "carmine" paint, developed after he visited Armenia, will soon be in mass production. Carmine is made from cochineal worms. But they can be gathered only on a few days in September. Armenian scientists find they can grow the amazing worms all round-the-calendar, with proper feeding, in green-houses. Since world demand for genuine carmine is large, Armenians have set up 500 acres of greenhouses for cochineal farming.

Acrobat Valentin Dikul broke his back when a young circus star. Doctors said he'd be lucky ever to stand up again. Today he amazes audiences by holding up a car with four passengers in it! A leading Soviet strong-man now. For years he did weight-lifting while confined to bed. Gradually regained all his strength and more. Besides circus work, Dikul now advises people who are laid low with broken spines.

In case your paper didn't report it, the Chinese government not only returned a Soviet plane that was hijacked in Chinese air space, but promptly sent home the crew and all passengers. Finally, Peking decided to put the hijacker on trial. No details of how they handled the hijacking, with no injuries whatever, but the rescue succeeded. China and USSR have extensive air-transport relations.

ABSOLUTELY FREE.

You haven't a chance in the world to find these in a book store. But all three of them can give you valuable insight into what's going on, and you'll also find them very interesting to read.



STELLAR DELUSIONS

Here's the forthright answer of the Soviet Union to Reagan's Hollywood "Space Wars" program. Packed with scientific facts, yet clearly understandable, this exposes the billionaires in Washington who would have the USA commit suicide for profit. "STELLAR DELUSIONS" Gerasimov - It's NOT FOR SALE

In facts, figures and colorful charts this brand new report gives you a sweeping picture of what Socialism is achieving RIGHT NOW, and what the Soviet people intend to do in the next 15 years. Never has so much inspiring information been compressed into so few pages. With this you'll be able to answer those who wonder what the USSR is after: not merely "economic" gains but transformation of people's lives also.

"USSR in the CURRENT 5-YEAR PERIOD" - It's NOT FOR SALE

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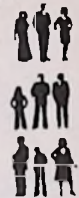
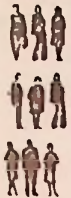
NEW SUB FOR (NAME).....

ADDRESS.....

MY NAME.....

ADDRESS.....

**YOU
read it..
YOU
enjoy it..
Why
not
give it?**



This is where you can welcome new Readers

Not everyone likes to have their names in print, so to be fair to all we run only your initials. Apologies to the many whose splendid letters didn't get into our very limited space.

"In Feb. '83 NN ran an article on Hydrogen Power. Can you tell me what progress USSR has made on this priceless dream for such fabulous power for humanity?" O.S.
Reply: As we said, "within two years" H-Power has appeared in practical forms; but this doesn't mean H-Power "stations", only the ways to build them. USSR now proposes all major nations cooperate to finance the very costly demonstration required. This will require stable, guaranteed peace.

"You say we can count on NN to help us change those who can change the world. And we also help those who cannot pay for NN. For this service to humanity we feel NN has a right to ask us for help." R.A.T.

"I'm 62 now and feel good and strong. Much credit goes to NN's Health Reports. I'd like to thank Ronald Reagan that we have a free press, and here is my donation to NN as a tribute to this end." E.B.

"Look forward to NN every month, just like taking a 'pill' to keep me feeling good, in face of a world that is falling apart. Our government is not making things better when they sell 'tritium' to the USA, which they use to make nuclear weapons." C.J.

"I liked the article on Samantha Smith. Her memory is being revered all over USSR. People in Dushanbe (capital of Tajikistan) planted an evergreen cedar in their People's Friendship Park. Why can't NN do something like that in Canada?" MM.

"Dear NN, or shall I say 'Dear giver of hope'. With things the way they are here in USA your magazine lifts my spirit. Here's my donation. I'm 85 and hope to see a Socialist world before I go." S.B.

"At last I've subscribed! Also sharing NN with a friend who likes it. He added \$10 to my donation." J.R.

"Maggie sure takes a nice picture. Looks so much like a cat I used to own. Want to get the good news out so here's my donation. We need a leader so badly especially now when the NDP preaches Socialism and lets us down so badly. Our system seems rotten to the core, when we have to sit back while our leaders take us into bankruptcy. A man tells me 'We should give the Conservatives a chance.' I told him they've had too much chance! Hope we don't wind up as the 51st state of America. Still have faith we're on the winning side." H.A.

"No sooner got my NN than the shuttle blew up. I think 'Star Wars' blew up with it. Reagan sitting on the side of his bed crying, and that horrible noise is Wince-burger grinding his teeth. Be looking for NN's comments." A.V.

"Happy to see Maggie looking more luxurious. So our small donations have helped some. I can't imagine life without NN. Doesn't arrive fast enough for me. After the perpetual propaganda we get comes NN always with facts, and this makes my mental health much improved." V.P.

"I'd like you to know that I have been greatly helped by your series of Reports on 'Depression', which I sent for some time ago. Glad to see Maggie well." P.H.

"Little Old Maggie sure looks healthy and happy. Read NN from cover to cover. Gives me a lift when I see Socialism getting a foothold in the poverty stricken countries, helping people to a new life. Donation here." M.R.S.

"Greetings to Maggie from my Zappo, a Burmese. They're both well cared for, which is how it should be. Much love to NN." M.S.

"Glad to see Maggie is doing all right. We're not doing too badly ourselves, enjoying our Northern Neighbors. Our issue doesn't go to waste, we pass it on to others. Maybe they've already subscribed." K.K.

"Friend sent me a copy of NN years ago and I wouldn't be without it since. Pass mine on to others. Wish I could send more than this donation." C.D.

"Never cease to marvel how you put out a magazine containing such a wide range of information on nearly every topic conceivable. I think NN has no equal." E.G.

Note: Compliments should go to the Soviet people and their wonderful newspaper staffs who give the world a constant flow of Socialism's achievements. We only wish we could use twice and ten times more in NN's pages.

"Here's donation for the best magazine we know of. Have believed in Socialism for many years but I'm aware it is difficult to achieve in a country where the great majority are well cared for. But the inability of Capitalism to function in the age of Science will be its downfall. My wife and I both salute NN as the finest magazine we know." L.W.R.
Thanks! Mr. and Mrs. R. are both 'senior-seniors' but they managed to send NN a very substantial donation. May they live longer and healthier!

"No matter how fast the competitive race is run, the unlimited range of inequalities, in human judgement and initiative, cannot be harmonized or equalized within our system, without a continuous process of liquidation and bankruptcy." H.W.

"I'd like to get those two books on the war by Marshal Zhukov. Could you 'borrow or steal' them for me." J.A.W.
Reply: Friend, we'd do anything to get hundreds of copies but they just don't exist. Trying to get the publisher to reprint.

"NN is the world's best for all-round coverage. Writing is terrific and subject matters are what my heart desires. Yours for a peaceful and bountiful world!" J.R.

"Thank you for the pictures of your beautiful cat Maggie. I wish her and everyone who is struggling for a better world. Peace and Health in 1986." C.T.

"Want to pass on the last issue intact so here is my own coupon, to go with this donation. Good health, best wishes, continued success to NN." E.D.M.

"After seeing Maggie's latest picture we thought we'd better say Hello. Thought of sending you some tuna, but after the big scandal decided not to. Keep up the good work!" G.L.

"Have long enjoyed reading NN so here's my donation to help circulation grow. I try by always passing on my copy to someone else." K.K.

"NN came a week after I had an eye operation. Found your letter in the middle. Could barely read it, but eventually did, with the help of a jeweller's magnifying glass. So here's my donation. May be able to use the information in those two free reports." J.A.P.

"Religious people, it seems to me, do not like to handle stress. Religion handles most of their stresses; result, they feel happier. I think when religion is fully understood, a lot of mankind's troubles will be over, like a lot of wars. Religion says God made the Universe and the people. I say no one knows exactly how the Universe was made or how people came about. Some day we will know. In the meantime religions capitalize on our ignorance. I'm not insulting anyone." J.B.

"Happy New Year! When reading latest NN you almost made me cry, not from fear but from happiness. Sometimes I read NN twice." A.K.

"Pinochet of Chile was installed by machinations of the CIA. To guarantee bank loans he rules through terrorism and has the admiration of Ronald Reagan. Now Duvalier who ruled Haiti through the same means has gone. Isn't it time for Canada to look elsewhere than to the USA for partners? We should herald through whatever means at our disposal the triumph of Socialism to save humanity." J.R.H.T.

"Keep NN coming. We have a lot of talking and writing to do, to get truth over to the people. Time is running fast." M.K.

"Your magazine is very interesting and informative about the development of a new society where truth and facts prevail and will eventually be the society of all our Spaceship Earth." G.V.P.

Your life gets better when you win with the people

Did you notice that even the daily papers had to admit that the people were victorious in Haiti and then in the Philippines. What none of the media ever admit is that the Soviet people have been victorious ever since 1917. And you can share their better life. Here are five books for . . . better living.

Nobody ran down their youth

All over our western world people are blaming the youth for anything wrong. So it's great to remember that Soviet people never held their young people responsible for problems of the system.

On the contrary! The new life over there was created mainly by the youth.

Ilya Ehrenburg told all about this. You'll find it wonderfully inspiring.

"The Second Day" — Ehrenburg
No. 729 — \$3.85 postage free

You believe WAR can be good?

Do you know that this question has **divided progressive people** for many years?

Long ago Lenin pointed out that believers in Socialism **cannot be pacifists.**

Pacifism will never end wars.

If you don't go along with this, here's a book that will greatly improve your grasp of what is happening in our world today.

"On Just and Unjust Wars" — Lenin
No. 738 — \$2.55 postage free

How does your behaviour measure up?

Since the beginning of human society, people have rated each other by every standard conceivable. Mainly, by the rules of religions.

Along came Soviet Socialist society. Ruled by the working-people. With their outlook on life. Plus the scientific approach of Socialism.

Well, how would people rate you in the new system?

But that's not the main point! How do you rate yourself **right now?**

How are you "activizing your personality"? How does Marxism view the formation of personality? How about social activities, social relations?

The radically different attitudes in USSR can be really uplifting.

"Man: His Behaviour And Social Relations" — No. 735 — \$2.90 postage free

India: desperate poverty

You've seen India's cities on TV. Have you wondered: *how can people live like that?*

Maybe you ask: is that how they've been living for thousands of years? Or, did the British capitalists do it to them?

We're told that such poverty must be done away with. **Or else.** What?

Here's a very enlightening presentation.

"The Indian Economy" — Medovoy
No. 736 — \$2.75 postage free

If you are hard-boiled, okay

This is a factual *book of evidence* against some of the foulest killers of fascism.

Most shocking is the way it links such nazis with the CIA.

Takes you into fascist hells like Treblinka. And asks you: should they go unpunished?

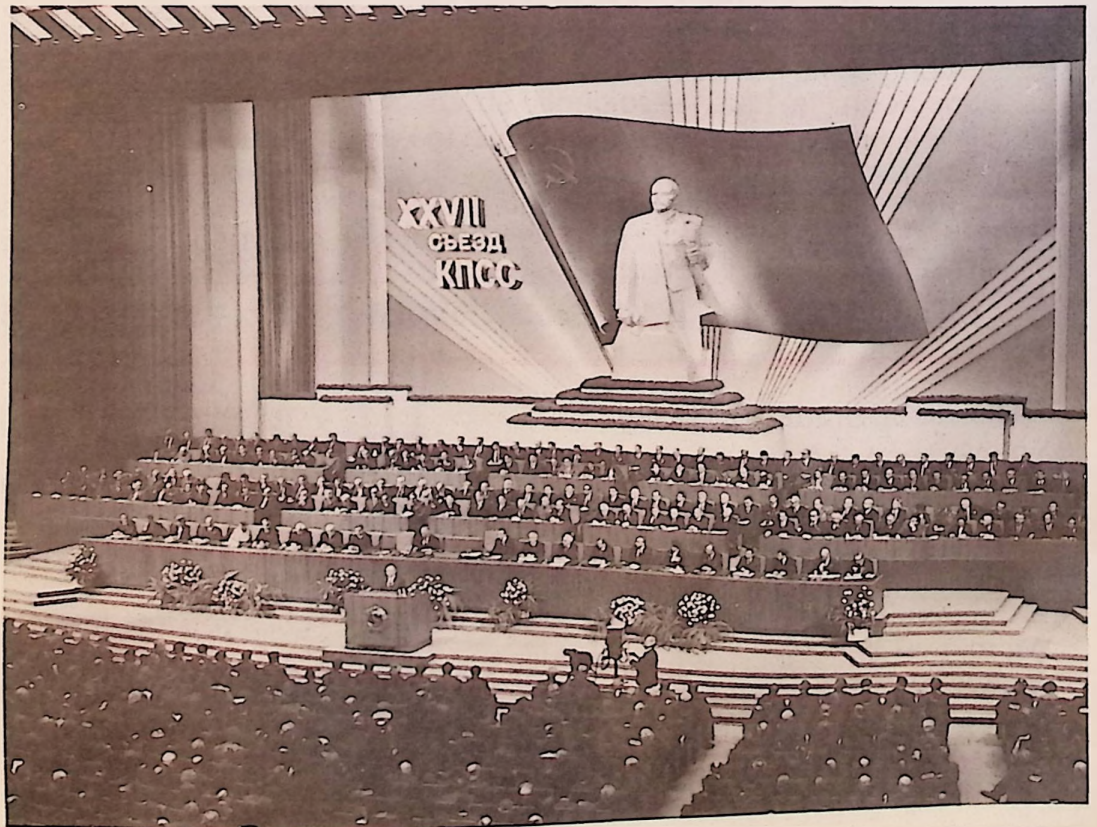
And what should be done with those who protect them to this very day?

"There Shall Be Retribution"
No. 727 — \$2.85 — postage free

Some of the best are left to the last: see page 33



General Secretary of the Communist Party
of the Soviet Union, Mikhail Gorbachyov



Session of the 27th Congress of the
Communist Party of the Soviet Union

Basic Aims and Directions of the CPSU Foreign Policy Strategy

(This is the main part of M.S. Gorbachev's Report to the 27th Congress of the CPSU, and is presented here as a public service to Readers of *Northern Neighbors Magazine*)

The tasks underlying the country's economic and social development also determine the CPSU's strategy on the world scene. Its main aim is crystal clear — to ensure to the Soviet people the possibility of working under conditions of enduring peace and freedom. Such, in essence, is the Party's primary program requirement of our foreign policy. To fulfil it in the present situation means, above all, to terminate the material preparations for a nuclear war.

After having weighed all the aspects of the situation that has taken shape, the CPSU has put forward a coherent program for the total abolition of weapons of mass destruction before the end of this century, a program that is historic in terms of its dimensions and significance. Its realisation would open for humankind a fundamentally new period of development and the opportunity to concentrate entirely on constructive labour.

As you know, we have addressed our proposals not only through the traditional diplomatic channels but also directly to world public opinion, to the peoples. The time has come to have a thorough understanding of the harsh realities of our day: Nuclear weapons harbour a hurricane with the potential of sweeping the human race from the face of the Earth. Our address further underscores the open, honest, Leninist character of the CPSU's foreign policy strategy.

Socialism unconditionally rejects war as a means of settling state-to-state political and economic contradictions and ideological disputes. Our ideal is a world without weapons and violence, a world in which each people freely chooses its path of development, its way of life. This is an expression of the humanism of communist ideology, of its moral values. That is why for the future as well the struggle against the nuclear menace, against the arms race, for the preservation and strengthening of universal peace remains the fundamental direction of the Party's activities on the international scene.

There is no alternative to this policy. This is all the more true in periods of tension in international affairs. I would say that never in the decades since the War has the situation in the world been so explosive, and consequently complex and uncongenial as in the first half of the 1980s. The right-wing group that came to power in the USA and its main NATO fellow-travellers made a steep turn from detente to a policy of military force. They have adopted doctrines that reject good-neighbourly relations and cooperation as a principle of world development, as a political philosophy of international relations. The administration in Washington remained deaf to our calls for an end to the arms race and an improvement of the situation.

Perhaps it may not be worth churning up the past? Especially today when in Soviet-U.S. relations there seem to be signs of a change for the better, and realistic trends are beginning to re-surface in the actions and attitudes of the leadership of some NATO nations. We feel that it is worthwhile, for the drastic frosting of the international climate in the first half of the 1980s was a further reminder that nothing comes of itself: Peace has to be fought for, and this has to be a persevering and meaningful fight. We have to look for, find, and use even the smallest opportunity in order — while this is still possible — to halt the trend towards an escalation of the threat of war. Appreciating this, the Central Committee of the CPSU at its April Plenary meeting once again analysed the character and dimensions of the nuclear threat and defined the practical steps that could lead to an

improvement of the situation. We were guided by the following considerations of principle.

First. The character of present-day weaponry leaves no country with any hope of safeguarding itself solely with military and technical means, for example, by building up a defence, even the most powerful. To ensure security is increasingly seen as a political problem, and it can only be resolved by political means. In order to progress along the road of disarmament what is needed is, above all, the will. Security cannot be built endlessly on fear of retaliation, in other words, on the doctrines of "containment" or "deterrence". Apart from the absurdity and amorality of a situation in which the whole world becomes a nuclear hostage, these doctrines encourage an arms race that may sooner or later go out of control.

Second. In the context of the relations between the USSR and the USA, security can only be mutual, and if we take international relations as a whole it can only be universal.

The highest wisdom is not in caring exclusively for oneself, especially to the detriment of the other side. It is vital that all should feel equally secure, for the fears and anxieties of the nuclear age generate uncertainty in politics and concrete actions. It is becoming extremely important to take the critical significance of the time factor into account. The appearance of new systems of weapons of mass destruction steadily shortens time and narrows down the possibilities for adopting political decisions on questions of war and peace in crisis situations.

Third. The USA, its military-industrial machine remains the locomotive of militarism, for so far it has no intention of slowing down. This has to be taken into consideration, of course. But we are well aware that the interests and aims of the military-industrial complex are not at all the same as the interests and aims of the American people, as the actual national interests of that great country.

Naturally, the world is much larger than the USA and its occupation of bases on foreign soil. And in world politics one cannot confine oneself to relations with any single, even a very important, country. As we know from experience, this only fosters the arrogance of strength. Needless to say, we attach considerable significance to the state and character of the relations between the Soviet Union and the USA. Our countries have quite a few points of coincidence, and there is the objective need to live in peace with each other, to cooperate on a basis of equality and mutual benefit, and there is no other basis.

Fourth. The world is in a process of swift changes, and it is not within anybody's power to maintain a perpetual status quo in it. It consists of many score of countries, each having interests that are perfectly legitimate. All without exception face a task of fundamental significance: Without being blind to social, political, and ideological differences all have to master the science and art of restraint and circumspection on the international scene, to live in a civilized manner, in other words, under conditions of civil international intercourse and cooperation. But to give this cooperation wide scope there has to be an all-embracing system of international economic security that would in equal measure protect every nation against discrimination, sanctions, and other attributes of imperialist, neocolonialist policy. Alongside disarmament such a system can become a dependable pillar of international security generally.

In short, the modern world has become much too small and fragile for wars and a policy of force. It cannot be saved and preserved if the thinking and actions built up over the centuries on the acceptability and permissibility of wars and armed conflicts are not shed once and for all, irrevocably.

This means the realisation that it is no longer possible to win an arms race, or nuclear war for that matter. The continuation of this race on Earth, let alone its spread to outer space, will accelerate the already critically high rate of stockpiling and perfecting nuclear weapons. The situation in the world may become such that it will no longer depend upon the intelligence or will of political leaders. It may become captive to technology, to technocratic military logic. Consequently, not only nuclear war itself but also the preparations for it, in other words, the arms race, the aspiration to win military superiority can, speaking in objective terms, bring no political gain to anybody.

Further, this means understanding that the present level of the balance of the nuclear capabilities of the opposite sides is much too high. For the time being this ensures equal danger to each of them. But only for the time being. Continuation of the nuclear arms race will inevitably heighten this equal threat and may bring it to a point where even parity will cease to be a factor of military-political deterrence. Consequently, it is vital, in the first place, to dramatically reduce the level of military confrontation. In our age, genuine equal security is guaranteed not by an excessively high but by the lowest possible level of strategic parity, from which nuclear and other types of weapons of mass destruction must be totally excluded.

Lastly, this means realising that in the present situation there is no alternative to cooperation and interaction between all countries. Thus, the objective — I emphasise, objective — conditions have taken shape in which confrontation between capitalism and socialism can proceed only and exclusively in forms of peaceful competition and peaceful contest.

For us peaceful coexistence is a political course which the USSR intends to go on following unswervingly. In ensuring this continuity of its foreign policy strategy, the CPSU will pursue a vigorous international policy stemming from the realities of the world we live in. Of course, the problem of international security cannot be resolved by one or two, even very intensive, peace offensives. Success can only be brought by consistent, methodical, and persevering effort.

Continuity in foreign policy has nothing in common with a simple repetition of what has been done, especially in tackling the problems that have piled up. What is wanted is a high degree of accuracy in assessing one's own possibilities, restraint, and an eminently high sense of responsibility when decisions are made. What is wanted is firmness in upholding principles and postures, tactical flexibility, a readiness for mutually acceptable compromises, and an orientation on dialogue and mutual understanding rather than on confrontation.

As you know, we have made a series of unilateral steps — we put a moratorium on the deployment of intermediate-range missiles in Europe, cut back the number of these missiles, and stopped all nuclear tests. In Moscow and abroad there have been talks with leaders and members of the governments of many countries. The Soviet-Indian, Soviet-French, and Soviet-U.S. summits were necessary and useful steps.

The Soviet Union has made energetic efforts to give a fresh impetus to the negotiations in Geneva, Stockholm, and Vienna, the purpose of which is to scale down the arms race and build up confidence between states. Negotiations are always a delicate and complex matter. Of cardinal importance here is to lead up to a mutually acceptable balance of interests. To turn weapons of mass destruction into an object of political scheming is, to say the least, immoral, while in political terms this is irresponsible.

Lastly, concerning our statement of January 15 of this year. Taken as a whole, our program is essentially an alloy of the philosophy of shaping a safe world in the nuclear-space age with a platform of concrete actions. The Soviet Union offers approaching the problems of disarmament in their totality, for in terms of security they are linked with one another. I am

not speaking of rigid linkages or attempts at "backing down" in one direction in order to erect barricades in another. What I am talking about is a plan of concrete actions strictly measured out in terms of time. The USSR intends to work perseveringly for its realisation, regarding it as the central direction of our foreign policy for the coming years.

The Soviet military doctrine is also entirely in keeping with the letter and spirit of the initiatives we have put forward. Its orientation is unequivocally defensive. In the military sphere we intend to act in such a way as to give nobody grounds for fears, even imagined, about their security. But to an equal extent we and our allies want to be rid of the feeling that we are threatened. The USSR undertook the obligation not to be the first to use nuclear weapons and it will abide strictly by that obligation. But it is no secret that scenarios for a nuclear strike against us exist. We have no right to overlook this. The Soviet Union is a staunch adversary of nuclear war in any variant. Our country stand for removing weapons of mass destruction from use, for limiting the military potential to reasonable adequacy. But the character and level of this ceiling continues to be limited by the attitudes and actions of the USA and its bloc partners. Under these conditions we repeat again and again: The Soviet Union lays no claim to more security, but it will not settle for less.

I should like to draw attention to the problem of verification, to which we attach special significance. We have declared on several occasions that the USSR is open to verification, that we are interested in it as much as anybody else. All-embracing, strictest verification is perhaps the key element of the disarmament process. The essence of the matter, in our thinking, is that there can be no disarmament without verification and that verification without disarmament makes no sense.

There is yet another matter of principle. We have stated our attitude to Star Wars quite substantively. The USA has already drawn many of its allies into this program. There is the danger that things may become irreversible. Before it is too late, it is imperative to find a realistic solution guaranteeing that the arms race does not spread to outer space. The Star Wars program cannot be permitted to be used as a stimulus for a further arms race or as a road-block to radical disarmament. Tangible progress in what concerns a drastic reduction of nuclear capabilities can be of much help to surmount this obstacle. For that reason the Soviet Union is prepared to make a substantial step in that direction, to resolve the question of intermediate-range missiles in the European zone separately — without a direct link to problems related to strategic armaments and outer space.

The Soviet program has touched the hearts of millions of people, and among political leaders and public personalities interest in it continues to grow. The times today are such that it is hard to brush it off. The attempts to sow doubt in the Soviet Union's constructive commitment to accelerate, to tackle this pressing problem of our day — the destruction of nuclear weapons — in practical terms are becoming less and less convincing. Nuclear disarmament should not be the exclusive domain of political leaders. The whole world is now pondering this, for it is a question of life itself.

But, also, it is necessary to take into account the reaction of the centres of power that hold in their hands the keys to the success or failure of disarmament. Of course, the U.S. ruling class, to be more exact its most egoistical groups linked to the military-industrial complex, have other aims that are clearly antipodal to ours. For them disarmament spells out a loss of profits and a political risk, for us it is a blessing in all respects — economically, politically, and morally.

We know our principal opponents and have accumulated a complex and extensive experience in our relations and talks with them. The day before yesterday, we received President Reagan's reply to our statement of January 15. The U.S. side began to set forth its considerations in greater detail at the talks in Geneva. To be sure, we shall closely examine

everything the U.S. side has to say on these matters. However, since the reply was received literally on the eve of this Congress, the U.S. administration apparently expects, as we see it, our attitude to the U.S. stand to be made known to the world from this rostrum.

What I can say right away is that the President's letter does not give ground for amending the assessment of the international situation as had been set forth in the report before the reply was received. It says that the elimination of nuclear arms is the goal all the nuclear powers should strive after. In his letter the President agrees in general with some or other Soviet proposals and intentions as regards the issues of disarmament and security. In other words, the reply seems to contain some reassuring opinions and theses.

However, these positive pronouncements are swamped in various reservations, "linkages" and "conditions" which in fact block the solution of radical problems of disarmament. Reduction in the strategic nuclear arsenals is made conditional on our consent to the Star Wars program and reductions, unilateral, by the way, in the Soviet conventional arms. Linked to this are also problems of regional conflicts and bilateral relations. The elimination of nuclear arms in Europe is blocked by the references to the stand taken by Great Britain and France and the demand to weaken our defences in the eastern part of the country with the U.S. military forces retained as they are. The refusal to stop nuclear tests is justified by arguments to the effect that nuclear weapons serve as a factor of "containment". This is in direct contradiction with the purpose reaffirmed in the letter — the need to destroy nuclear weapons. The reluctance of the USA and its ruling circles to embark on the path of nuclear disarmament manifests itself most clearly in their attitude to nuclear explosions the termination of which is the demand of the whole world.

To put it in a nutshell, it is hard to detect in the letter we have just received any serious preparedness of the U.S. administration to get down to solving the cardinal problems involved in eliminating the nuclear threat. It looks as if some people in Washington and elsewhere, for that matter, have got used to living side by side with nuclear weapons linking with them their plans in the international arena. However, whether they want it or not, the Western politicians will have to answer the question: Are they prepared to part with nuclear weapons at all?

In accordance with an understanding reached in Geneva there will be another meeting with the U.S. President. The significance that we attach to it is that it ought to produce practical results in key areas of limiting and reducing armaments. There are at least two matters on which an understanding could be reached: The cessation of nuclear tests and the abolition of U.S. and Soviet intermediate-range missiles in the European zone. And then, as a matter of fact, if there is readiness to seek agreement, the question of the time of the meeting would be resolved of itself: We will accept any suggestion on this count. But there is no sense in holding empty talks. We shall not remain indifferent if the Soviet-U.S. dialogue that has started and inspired some not unfounded hopes of a possibility for changes for the better is used to continue the arms race and the material preparations for war. The Soviet Union is of a firm mind to justify the hopes of the peoples of our two countries and of the whole world who are expecting concrete steps, practical actions, and tangible agreements of the leaders of the USSR and the USA on how to block the arms race. We are prepared for this. Naturally, like any other country, we attach considerable importance to the security of our frontiers, on land and at sea. We have many neighbours, and they are different. We have not territorial claims on any of them. We threaten none of them. But as experience has shown time and again, there are quite a few persons who, in disregard of the national interests of either our country or those of countries neighbouring upon us, are endeavoring to aggravate the situation on the frontiers of the Soviet Union.

For instance, counter-revolution and imperialism have turned Afghanistan into a bleeding wound. The USSR supports that country's efforts to defend its sovereignty. We should like, in the nearest future, to withdraw the Soviet troops stationed in Afghanistan at the request of its government. Moreover, we have agreed with the Afghan side on the schedule for their phased withdrawal as soon as a political settlement is reached that ensures an actual cessation and dependably guarantees the non-resumption of foreign armed interference in the internal affairs of the Democratic Republic of Afghanistan. It is in our vital, national interest that the USSR should always have good and peaceful relations with all its neighbours. This is a vitally important objective of our foreign policy.

The CPSU regards the European direction as one of the main directions of its international activity. Europe's historic opportunity and its future lies in peaceful cooperation among the nations of that continent. And it is important, while preserving the assets that have already been accumulated, to move further: from the initial to a more lasting phase of detente, to mature detente, and then to the building of dependable security on the basis of the Helsinki process, of a radical reduction of nuclear and conventional weapons.

The significance of the Asian and Pacific direction is growing. In that vast region there are many tangled knots of contradictions and, besides, the political situation in some places is unstable. Here it is necessary, without postponement, to find the relevant solutions and paths. Evidently, this has to begin with the coordination and then the pooling of efforts in the interests of a political settlement of painful problems so as, in parallel, on that basis to at least take the edge off the military confrontation in various parts of Asia and stabilize the situation there.

This is made all the more urgent by the fact that in Asia and other continents the flashpoints of military danger are not dying down. We are in favour of vitalising collective quests for ways of defusing conflict situations in the Middle East, Central America, South Africa, in all of the planet's turbulent points. This is imperatively demanded by the interests of general security.

Crises and conflicts are fertile soil also for international terrorism. Undeclared wars, the export of counter-revolution in all forms, political assassination, the taking of hostages, the hijacking of aircraft, the bomb attacks in streets, airports, and railway stations — such is the hideous face of terrorism, which its instigators try to mask with various cynical inventions. The USSR rejects terrorism in principle and is prepared to cooperate actively with other states in order to uproot it. The Soviet Union will resolutely safeguard its citizens against acts of violence and do everything to defend their lives, honour, and dignity.

Looking back over the past year one will see that, by all the evidence, the prerequisites for improving the international situation are beginning to form. But prerequisites for a turn are not the turn itself. The arms race continues and the threat of nuclear war remains. However, international reaction is by no means omnipotent. The development of the world revolutionary process and the growth of mass democratic and anti-war movements have significantly enlarged and strengthened the huge potential of peace, reason, and good will. This is a powerful counter-balance to imperialism's aggressive policy.

The destinies of peace and social progress are now linked more closely than ever before with the dynamic character of the socialist world system's economic and political development. The need for this dynamism is dictated by concern for the welfare of the peoples. But for the socialist world it is necessary also from the standpoint of counter-action to the military threat. Lastly, in this lies a demonstration of the potentialities of the socialist way of life. We are watched by both friends and foes. We are watched by the

huge and heterogeneous world of developing nations. It is looking for its choice, for its road, and what this choice is will depend to a large extent on socialism's successes, on the credibility of its answers to the challenges of time.

We are convinced that socialism can resolve the most difficult problems confronting it. Of vital significance for this is the increasingly vigorous interaction whose effect is not merely the adding up but the multiplication of our potentials and which serves as a stimulus for common advancement. This is mirrored also in joint documents of countries of the socialist community.

Interaction between governing Communist Parties remains the heart and soul of the political cooperation among these countries. During the past year there has practically been no fraternal countries with whose leaders we have not had meetings and detailed talks. The forms of such cooperation are themselves being updated. A new and perhaps key element, the multilateral working meetings of leaders of fraternal countries are being institutionalized. These allow for prompt and friendly consultations on the entire spectrum of problems of socialist construction, on its internal and external aspects.

In the difficult international situation the prolongation of the Warsaw Treaty by a unanimous decision of its signatories was of great significance. This Treaty saw its second birth, so to speak, and today it is hard to picture world politics as a whole without it. Take the Sofia Conference of the Treaty's political consultative committee. It was a kind of threshold of the Geneva dialogue.

In the economic sphere there now is the comprehensive program of scientific and technological progress. Its import lies in the transition of the CMEA countries to a coordinated policy in science and technology. The accent is being shifted from primarily commercial relations to specialization and cooperation of production, particularly in heavy engineering. In our view, changes are also required in the work of the headquarters of socialist integration — the Council for Mutual Economic Assistance. But the main thing is that in carrying out this program there is less armchair administration and fewer committees and commissions of all sorts, that more attention is given to economic levers, initiative, and socialist enterprise, and that work collectives are drawn into this process. This would indeed be a committed approach to such an extraordinary undertaking.

Vitality, efficiency, and initiative — all these qualities meet the imperatives of the times, and we shall strive to have them spread throughout the system of relations between fraternal parties. The CPSU attaches growing significance to live and broad communication between citizens of socialist countries, between people of different professions and different generations. This is a source of mutual intellectual enrichment, a channel for exchanges of views, ideas, and the experience of social construction. Today it is especially important to analyze the character of the socialist way of life and understand the processes of perfecting democracy, management methods and personnel policy on the basis of the development of several countries rather than of one country. A considerate and respectful attitude to each other's experience and the employment of this experience in practice are a huge potential of the socialist world.

Generally speaking, one of socialism's advantages is its ability to learn: To learn to resolve the problems posed by life; to learn to forestall the crisis situations that our class adversary tries to create and utilize; to learn to counter the attempts to divide the socialist world and play off some countries against others; to learn to prevent collisions of the interests of different socialist countries, harmonize them by mutual effort, and find mutually acceptable solutions even to the most intricate problems.

It seems to us that it is worth taking a close look also at the relations in the socialist world as a whole. We do not see the community as being separated by some barrier from other socialist countries. The CPSU stands for honest, aboveboard

relations with all Communist Parties and all countries of the socialist world system, for comradely exchanges of opinion between them. Above all, we endeavour to see what unites the socialist world.

For that reason the Soviet communists are gladdened by every step towards closer relations among all socialist states, by every positive advance in these relations.

One can say with gratification that there has been a measure of improvement of the Soviet Union's relations with its great neighbour — socialist China. The distinctions in attitudes, in particular, to a number of international problems remain. But we also note something else — that in many cases we can work jointly, cooperate on an equal and principled basis, without prejudice to third countries.

There is no need to explain the significance of this. The Chinese communists called the victory of the USSR and the forces of progress in the Second World War a prologue to the triumph of the People's Revolution in China. In turn, the formation of People's Republic of China helped to reinforce socialism's positions in the world and disrupt many of imperialism's designs and actions in the difficult postwar years. In thinking of the future, it may be said that the potentialities for cooperation between the USSR and China are enormous. They are great because such cooperation is in line with the interests of both countries; because what is dearest to our peoples — socialism and peace — is indivisible.

The CPSU is an inalienable component of the international communist movement. We, the Soviet communists, are well aware that every advance we make in building socialism is an advance of the entire movement. For that reason the CPSU sees its primary internationalist duty in ensuring our country's successful progress along the road opened and blazed by the October Revolution.

The Communist movement in the non-socialist part of the world remains the principal target of political pressure and harassment by reactionary circles of the bourgeoisie. All the fraternal Parties are constantly under fire from anti-communist propaganda, which does not hold back from the most despicable means and methods. Many parties operate underground, in a situation of unmitigated persecution and repression. Every step the communists take calls for struggle and personal courage. Permit me, comrades, on behalf of the 27th Congress, on behalf of the Soviet communists to express sincere admiration for the dedicated struggle of our comrades, and profound fraternal solidarity with them.

In recent years the Communist movement has come face to face with many new realities, tasks, and problems. All the indications are that it has entered upon a qualitatively new phase of development. The international conditions of the work of communists are changing rapidly and profoundly. A substantial restructuring is taking place in the social pattern of bourgeois society, including the composition of the working class. The problems arising for our friends in the new independent states are not simple. The scientific and technological revolution is exercising a contradictory influence on the material conditions and consciousness of working people in the non-socialist world. All this requires the ability to do a lot of rethinking and demands a bold and creative approach to the new realities on the basis of the immortal theory of Marx, Engels, and Lenin. The CPSU knows this well from its own experience.

The communist movement's immense diversity and the tasks that it encounters are likewise a reality. In some cases this leads to disagreements and divergences. The CPSU is not dramatizing the fact that complete unanimity among Communist Parties exists not always and not in everything. Evidently, there generally cannot be an identity of views on all issues without exception. The communist movement came into being when the working class entered the international scene as an independent and powerful political force. The parties that comprise it have grown on national soil and pursue a common end objective — peace and

socialism. Precisely this is the main, determining thing that unites them.

The trend towards strengthening the potential of peace, reason, and good will is enduring and in principle irreversible. At the back of it is the aspiration of people, of all nations to live in concord and to cooperate. However, one should look at things realistically: the balance of strength in the struggle against war is shaping in the course of an acute and dynamic confrontation between progress and reaction. An immutable factor is the CPSU's solidarity with the forces of national liberation and social emancipation, and our course towards close interaction with socialist-oriented countries, with revolutionary-democratic parties, and with the non-aligned movement. The Soviet public is prepared to go on promoting links with non-communist movements and organizations, including religious organizations militating against war.

This is also the angle from which the CPSU regards its relations with the social democratic movement. It is a fact that the ideological differences between the communists and the social democrats are deep, and that their achievements and experience are dissimilar and non-equivalent. However, an unbiased look at the standpoints and views of each other is unquestionably useful to both the communists and the social democrats, useful in the first place for furthering the struggle for peace and international security.

We are living in a world of realities and are building our international policy in keeping with the specific features of the present phase of international development. Our creative analysis of this phase and vision of prospects have led us to a conclusion that is highly significant. As never before it is now important to find ways for closer and more productive cooperation with governments, parties, and mass organizations and movements that are in fact preoccupied with the destinies of peace on Earth, with all peoples in order to build an all-embracing system of international security.

We see the fundamental principles of this system in the following:

1. IN THE MILITARY SPHERE

— Renunciation by the nuclear powers of war — both nuclear and conventional — against each other or against third countries;

— prevention of an arms race in outer space, cessation of all nuclear weapons tests and the total destruction of such weapons, a ban on and the destruction of chemical weapons, and renunciation of the development of other means of mass annihilation;

— a strictly controlled lowering of the levels of military capabilities of countries to limits of reasonable adequacy;

— disbandment of military alliances, and as a stage towards this — renunciation of their enlargement and of the formation of new ones;

— balanced and commensurate reduction of military budgets.

2. IN THE POLITICAL SPHERE

— Unconditional respect in international practice for the right of each people to choose the ways and forms of its development independently;

— a just political settlement of international crises and regional conflicts;

— elaboration of a set of measures aimed at building confidence between states and the creation of effective guarantees against attack from without and of the inviolability of their frontiers;

— elaboration of effective methods of preventing international terrorism, including the safety of international land, air, and sea communications.

3. IN THE ECONOMIC SPHERE

— Exclusion of all forms of discrimination from international practice; renunciation of the policy of economic blockades and sanctions if this is not directly envisaged in the recommendations of the world community;

— joint quest for ways for a just settlement of the problem of debts;

— establishment of a new world economic order guaranteeing equal economic security to all countries;

— elaboration of principles for utilizing part of the funds released as a result of a reduction of military budgets for the good of the world community, of developing nations in the first place;

— the pooling of efforts in exploring and making peaceful use of outer space and in resolving global problems on which the destinies of civilization depend.

4. IN THE HUMANITARIAN SPHERE

— Cooperation in the dissemination of the ideas of peace, disarmament, and international security; greater flow of general objective information and intercourse between peoples for the purpose of learning about one another; reinforcement of the spirit of mutual understanding and concord in the relations between them;

— extirpation of genocide, apartheid, advocacy of fascism and every other form of racial, national or religious exclusiveness, and also of discrimination against people on this basis;

— extension — while respecting the laws of each country — of international cooperation in the implementation of the political, social, and personal rights of people;

— decision in a humane and positive spirit of questions related to the reuniting of families, marriage, and the promotion of contacts between people and between organizations;

— strengthening of and quests for new forms of cooperation in culture, art, science, education, and medicine.

These principles stem logically from the provisions of the program of the CPSU. They are entirely in keeping with our concrete foreign policy initiatives. Guided by them it would be possible to make peaceful coexistence the highest principle of state-to-state relations. In our view, these principles could become the point of departure and a sort of guideline for a direct and systematic dialogue between leaders of countries of the world community — both bilateral and multilateral.

And since this concerns the destinies of peace, such a dialogue is particularly important among the permanent members of the Security Council — the five nuclear powers. They bear the main burden of responsibility for the destinies of humankind. I emphasize — not a privilege, not a foundation for claims to "leadership" in world affairs, but responsibility, about which nobody has the right to forget. Why then should their leaders not gather at a round table and discuss what could and should be done to strengthen peace?

As we see it, the entire existing mechanism of arms limitation negotiations should also start to function at top productivity. Can one "grow accustomed" to the fact that for years these talks have been proceeding on a parallel course, so to speak, with a simultaneous build-up of armaments?

The USSR is giving considerable attention to a joint examination of the world economy's problems and prospects, the interdependence between disarmament and development, and the expansion of trade and scientific and technological cooperation at international forums as well as within the framework of the Helsinki process. We feel that in the future it would be important to convene a world congress on problems of economic security at which it would be possible to discuss in a package everything that encumbers world economic relations.

We are prepared to consider seriously any other proposal aimed at the same direction.

Under all circumstances success must be achieved in the battle to prevent war. This would be an epoch-making victory of the whole of humanity, of every person on earth. The CPSU sees active participation in this battle as the essence of its foreign policy strategy.



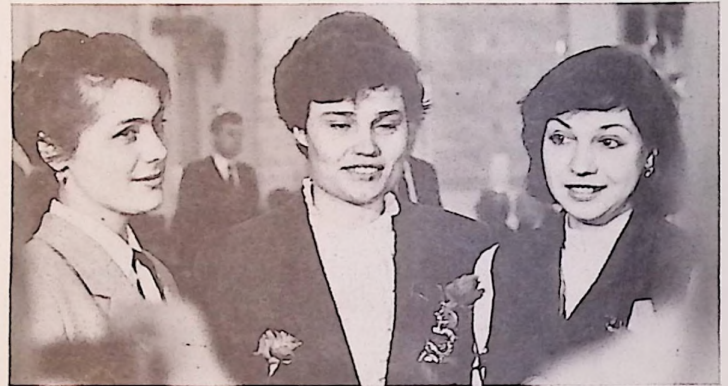
Party members elected to the Congress by Leningrad organizations. Most of them were personally involved in the heated debates that preceded the meetings.



These Party delegates were particularly proud of being elected to the Congress, because they come from Ulyanovsk, city of Lenin's birth, where the very concept of Socialism arose.



The triumph of launching the huge space station "Mir" was a source of great pride for spaceman Beregovoi, chief of the Gagarin Space Centre, a Congress delegate.



Left-to-right: N. Gellert, from a big Co-Op farm in Kazakhstan; N. Taran, worker at a motor plant in the Altai region; N. Gorshinoi, who came from a fishing base in Vladivostok. All were impressed by the enthusiasm and confidence of the thousands of Congress delegates.



They're greeting one of the youngest of all delegates: Oleg Sherstovitoi (centre).



Thousands of the finest builders of Socialism were delegates elected by fellow-workers. Many took part in the vigorous discussions, though many times more participated in drawing up the resolutions presented at the Congress. They represented over eighteen million Communist Party members. Here they are voting on a resolution.



Palace of Congresses, built in 1959-1960.

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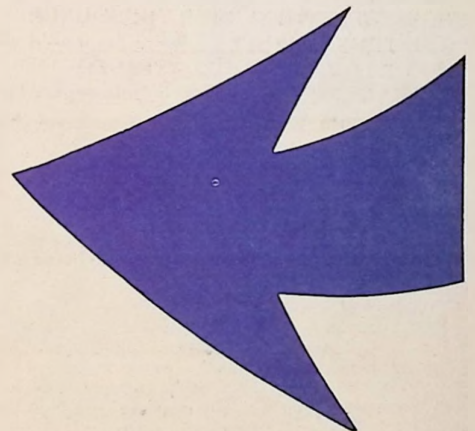


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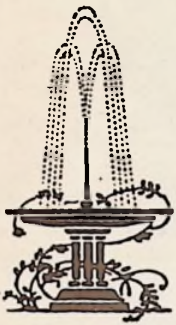


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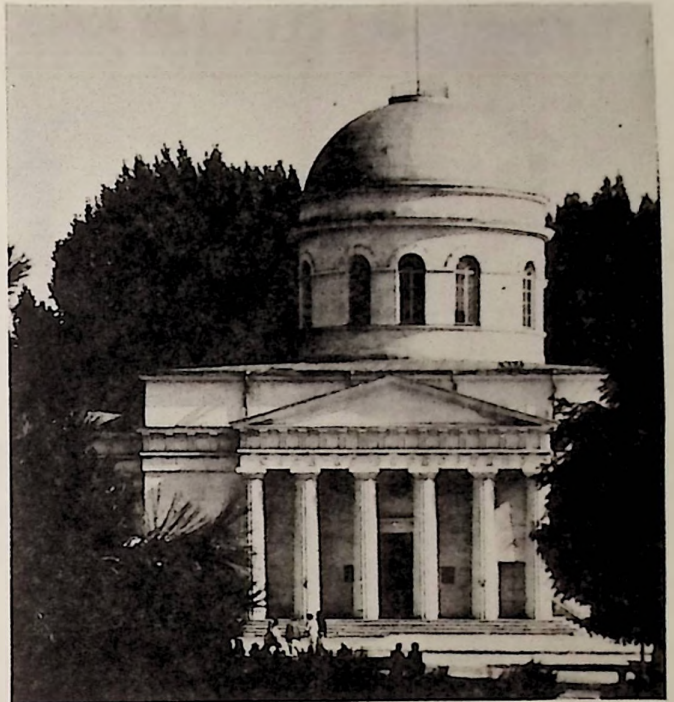
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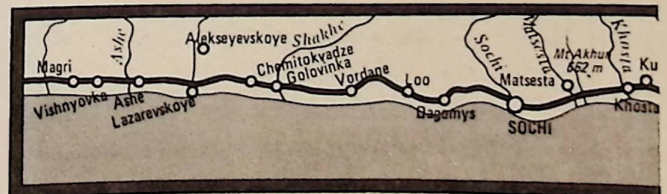
MOSCOW	2 days
SOCHI	23 days
LENINGRAD	3 days
	28 days

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Depart	Return	Land Cost
May 9th	June 7th	1365.00
June 13th	July 12th	1660.00
July 11th	August 9th	1660.00
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- excursion to Petrodvorets
- 2 theatre performances
- all transportation by air between cities in USSR
- all transfers and baggage handling
- Gala Farewell Party



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TRANS-SIBERIAN ROUND THE WORLD

ITINERARY A

- Day 1 depart from your own city to meet with group at Vancouver airport for flight to Tokyo
- Day 2 arrive Tokyo, transfers and accommodation at Pacific Meridian Hotel
- Day 3 TOKYO
- Day 4 TOKYO
- Day 5 TOKYO
- Day 6 morning bus transfer to Yokohama/board the m/v Baikal, Soviet ship
- Day 7 enroute
- Day 8 arrive NAKHODKA, Soviet Far Eastern port. By train to KHABAROVSK
- Day 9 KHABAROVSK
- Day 10 KHABAROVSK
- Day 11 board the Trans-Siberian train enroute to Irkutsk at 07:05
- Day 12 enroute
- Day 13 enroute
- Day 14 arrive at IRKUTSK at 00:44
- Day 15 IRKUTSK — excursion to Lake Baikal
- Day 16 by air to ALMA ATA
- Day 17 ALMA ATA
- Day 18 by air to TASHKENT
- Day 19 TASHKENT
- Day 20 by air to DUSHANBE
- Day 21 DUSHANBE
- Day 22 by air to ASHKHABAD
- Day 23 ASHKHABAD
- Day 24 by air to BAKU
- Day 25 BAKU
- Day 26 by air to YALTA
- Day 27 YALTA
- Day 28 YALTA
- Day 29 by air to MOSCOW
- Day 30 MOSCOW
- Day 31 MOSCOW
- Day 32 by air to LENINGRAD
- Day 33 LENINGRAD
- Day 34 LENINGRAD
- Day 35 LENINGRAD
- Day 36 LENINGRAD
- Day 37 depart from Leningrad by air to Helsinki, Finland. Overnight HOTEL TORNI.
- Day 38 depart from Helsinki to Montreal/connect to your own city

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- all breakfasts and 2 lunches in Japan
- all transfers and baggage handling
- accommodation on m/v Baikal in first class, 2-berth cabins
- accommodation on train in 2nd class, 2-berth compartments
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May 19th	June 25th	4,360.00	950.00
July 3rd	August 9th		
July 31st	September 6th		

AIR FARE: For appropriate air fare from your city please refer to chart on page 3 and add to the cost of the land package.

[Other tours are available. If you want details, check Coupon on Page 33]