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WELL DONE! -- ALL OF YOU -CONSIDERING THAT ONE DISCOVERY
HAD NOTHING TO DO WITH THE
OTHER. BUT THEY'VE ALL PROVEN
OF GREAT BENEFIT TO MAN.
WHAT'S MORE...



















I ALWAYS
THOUGHT "RESEARCH"
MEANT LOOKING
AT THINGS THROUGH
A MICROSCOPE.

THAT CAN BE PART OF RESEARCH; JOHNNY, BUT IT GOES MUCH FURTHER. YOU SEE...





A RESEARCH SCIENTIST SOUNDS LIKE A PRETTY IMPORTANT THING TO BE! -- SOMEBODY TO RESPECT.

IT IS NOW, JOHNNY.
IN TIMES PAST,
THESE SCIENTISTS
OFTEN HAD TO TRY
TO DEVELOP THEIR
IDEAS IN THE FACE
OF POVERTY AND
RIDICULE. THEY WERE
REGARDED AS IDLE
DREAMERS -"QUEER DUCKS"...



TODAY, THEY ARE OUR
RECOGNIZED PIONEERS
OF PROGRESS... AND
TO INSPIRE THEM IN
THEIR THINKING, EXPERIMENTING AND CREATING,
INDUSTRY IS PROVIDING
THEM WITH EVERY
POSSIBLE RESEARCH TOOL
AND FACILITY - IN FINE
LABORATORY HOMES, WHERE
THEIR DREAMS MAY
BECOME DEEDS.

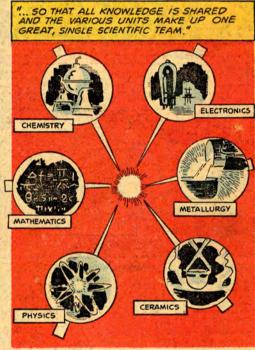


I'D SURE
LIKE TO SEE
A PLACE
LIKE THAT!
OH, SO
WOULD
SUPPOSE YOU
TWO RISE AND
TOMORROW-AND WE'LL DO
SOME RESEARCH
OF OUR OWN!













THERE ARE 40 G-E DEVELOPMENT LABS THROUGHOUT THE COUNTRY, BUT IT'S HERE THAT MOST OF THE BASIC RESEARCH AND MUCH OF THE APPLIED IS DONE. RIGHT NOW, THERE ARE AS MANY AS 300 DIFFERENT PROJECTS GOING ON -- WITH THE HELP OF EVERY POSSIBLE FACILITY...

THERE ARE OVER 10,000 INSTRUMENTS IN STOCK AVAILABLE TO THE SCIENTISTS... AND A STAFF OF SKILLED TECHNICIANS TO REPAIR AND SERVICE THEM.



"THERE'S A GIANT
"SUPERMARKET' SUPPLYING TRANSFORMERS,
COILS AND OTHER
ELECTRONIC EQUIPMENT

ON REQUEST ...

"ABOUT 13,000 CHEMICALS AND FACILITIES ARE RANGED ON THE SHELVES OF THE CHEMICAL STOCK-ROOM, WHERE THE RESEARCHER MAY SIMPLY HELP HIMSELF...



"IF A SCIENTIST NEEDS SOMETHING THAT HASN'T BEEN BUILT YET, A STAFF OF CRAFTSMEN WILL CONSTRUCT WHATEVER APPARATUS HE MAY HAVE IN MIND...





\*MACHINISTS, TOO,

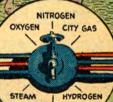
"MACHINISTS, TOO, ARE AVAILABLE TO FULFILL THE NEEDS OF THE RESEARCHERS WHO WORK HERE...



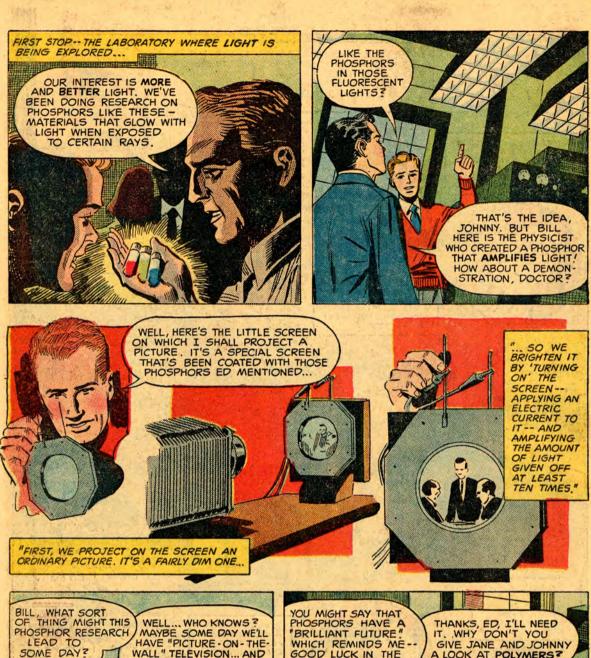


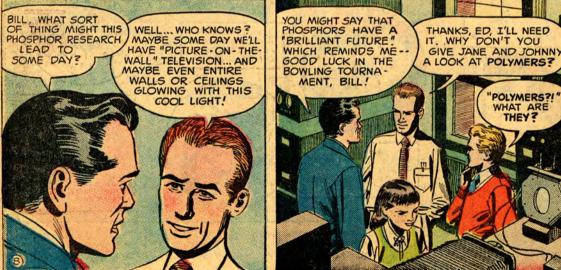
THROUGHOUT THE
BUILDING, RESEARCH
SCIENTISTS MAY - BY
TURNING A HANDLEBRING WHATEVER
GASES THEY MAY
NEED TO THEIR
LABORATORIES, DIFFERENT VOLTAGES
AND CURRENTS OF
ELECTRICITY, TOO, ARE
ABUNDANTLY SUPPLIED...

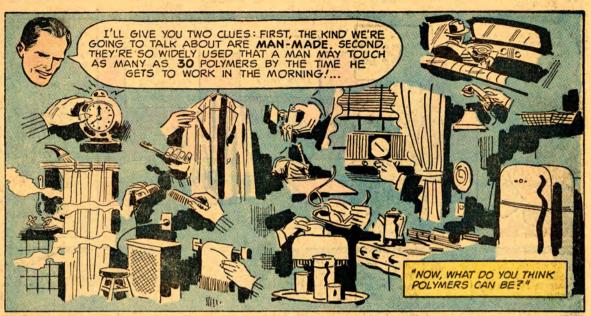
"SO YOU SEE, THIS LABORATORY - WITH ITS ISOO PEOPLE (ABOUT 400 OF THEM ON THE SCIENTIFIC STAFF) - IS BUILT FOR THE KIND OF ACTION THAT MAKES PROGRESS... FOR EFFICIENCY IN RESEARCH SCIENCE. LET'S SEE WHAT GOES ON INSIDE THOSE WALLS..."



AIR



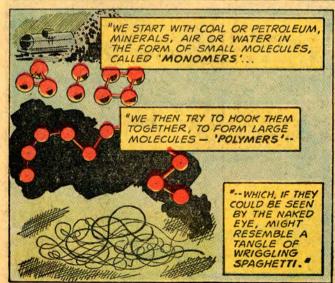






THE CHEMIST CAN CREATE
POLYMERS THAT HAVE JUST
EXACTLY THE KIND OF PROPERTIES
NEEDED FOR A SPECIAL JOB. THEY
CAN BE CLEAR AS WINDOW-GLASS
--OR MILKY... TOUGH AND HARD -OR SOFT AND PLIABLE. IN ORDER
TO MAKE THEM --















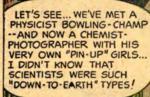




PUTTING MACHINERY ON A
DIET, ISN'T IT?
SO YOU SEE,
THE MORE WE
KNOW ABOUT
POLYMERS,
THE BETTER
THEY WILL
WORK FOR US
AS EFFCIENT,
ECONOMICAL
SERVANTS.\*

"THAT'S REALLY





THERE'S
NOTHING "OUTOF-THIS-WORLD"
ABOUT PEOPLE
WHO WANT TO
GET AT THE HEART
OF THINGS, JANE.

**福福**] 整 20 0 1

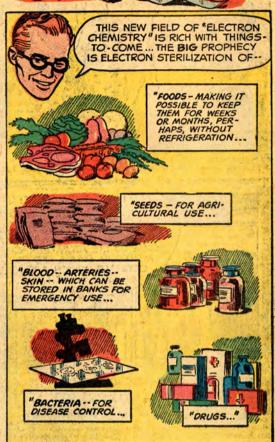


-- WHICH REMINDS
ME-- LET'S HAVE A
LOOK NOW AT A
VERY SPECIAL PIECE
OF RESEARCH
EQUIPMENT-- THE
ATOM-SMASHINGSYNCHROTRON!













"DISCOVERIES AND INVENTIONS ARE NOT ENDS IN THEMSELVES; THEY ARE FRESH STARTING POINTS FROM WHICH WE CAN CLIMB TO NEW KNOWLEDGE."







ALREADY, AS A RESULT OF THIS KIND OF RESEARCH, SCIENTISTS HERE HAVE BEEN ABLE TO "GROW" THE STRONGEST, MOST NEARLY PERFECT METAL IN THE WORLD! SEE THAT?

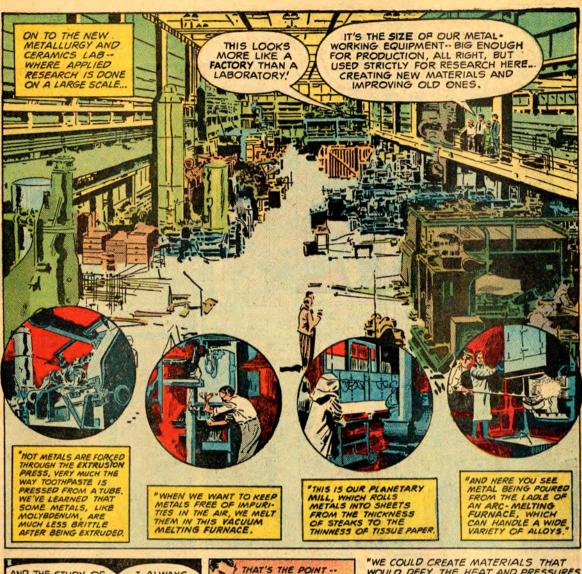


YOU SEE, ORDINARY
METALS WEAKEN WHEN
ONE ATOM IN ABOUT
A MILLION GETS OUT
OF LINE AND CAUSES
A DISLOCATION. BUT
IN THESE LITTLE METAL
"HAIRS," THE ATOMS
ARE ALMOST
PERFECTLY ALIGNED!



"GREAT OAKS FROM LITTLE
ACORNS GROW" -- AND
GREAT SKYSCRAPERS AND
BRIDGES -- PLANES, AUTOS
-- EVERYTHING MADE OF
METAL -- MAY GROW FROM
IRON WHISKERS.

I'VE ENJOYED
IT, TOO.







CERAMICS, THOUGH

THEY BREAK VERY

EASILY, CAN TAKE TERRIFI-

"WE COULD CREATE MATERIALS THAT WOULD DEFY THE HEAT AND PRESSURES OF SUPERSONIC FLIGHT, THE FANTASTIC JETS, ROCKETS AND MISSILES OF THE FUTURE WOULD BECOME REALITIES...



"OUR AIR POWER DEPENDS ON WHAT OUR RESEARCHERS CAN ACCOMPLISH."







AND JUST UPSTAIRS, OUR TRIO

THOSE VACUUM-TUBE
BOYS ARE MIGHTY PROUD
OF THEIR ACHIEVEMENTS,
BUT WAIT UNTIL YOU SEE
WHAT OUR SEMI-CONDUCTOR
MEN ARE UP TO...

OPERATE RED-HOT."



THE LAB SAMPLES ARE EVEN TINIER THAN THE MINIATURE VACUUM TUBES...



BUT WE'RE OUT TO MAKE THEM EVEN BETTER. AND WITH NEW MATERIALS -- LIKE THIS VERY PURE SILICON -- TO WORK WITH, WE'LL DO IT.'

MORE POWER TO ALL OF YOU, SAY I!



SCIENTIFIC
RESEARCH
DOES GO
FURTHER: MUCH
FURTHER THAN
I THOUGHT.

SOMETIMES, IT EVEN
GOES BEYOND THE
AVERAGE MAN'S
DREAMS, JOHNNY,
WE'RE NOW GOING
TO SEE ONE OF THE
MOST THRILLING
ACHIEVEMENTS OF
THIS LAB --







" UP UNTIL NOW. OUR COUNTRY HAS IMPORTED OVER FIFTY MILLION DOLLARS INDUSTRIAL DIAMONDS A YEAR FROM SOUTH AFRICA. IF WE CAN PROVIDE OUR NATION WITH INEXPENSIVE MAN-MADE DIAMONDS, THEY WILL BE MUCH MORE WIDELY USED BY MANY MORE INDUSTRIES!

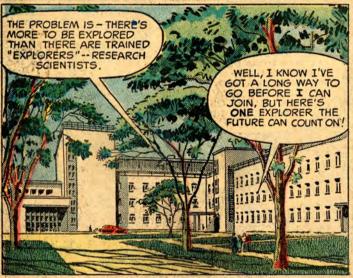




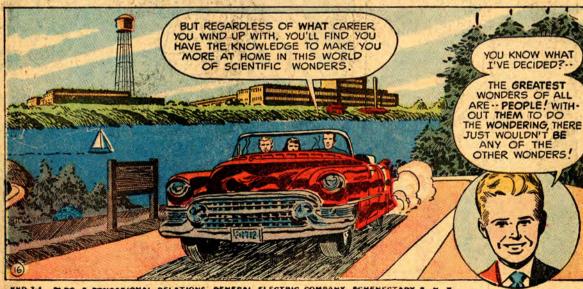


THERE'S A GOOD REASON FOR THAT ATMOSPHERE, JANE... EVERY OPPORTUNITY AND ENCOURAGEMENT HAVE BEEN GIVEN TO SCIENTISTS HERE. MOST IMPORTANT, THEY HAVE FREEDOM -- THE FREEDOM TO THINK, TO EXPLORE, TO INVESTIGATE -- IN THE SEARCH FOR KNOWLEDGE!









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