

# INVENTERPRISE 2002

ILLUSTRATION BY J. LACHAPPELLE

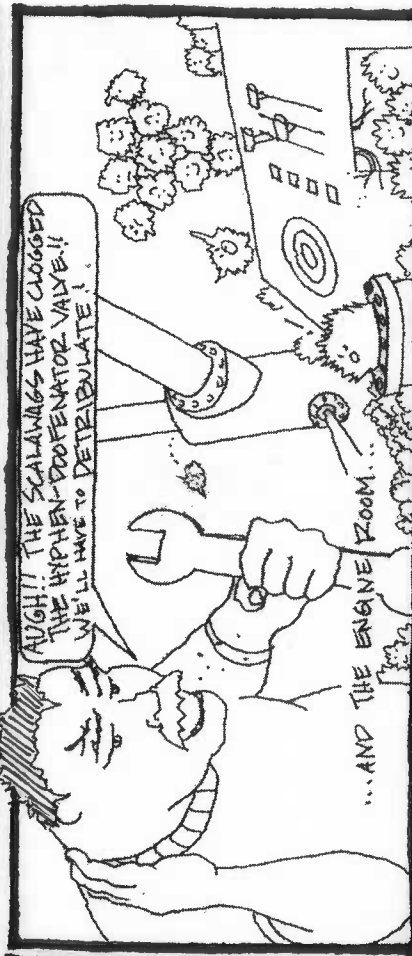
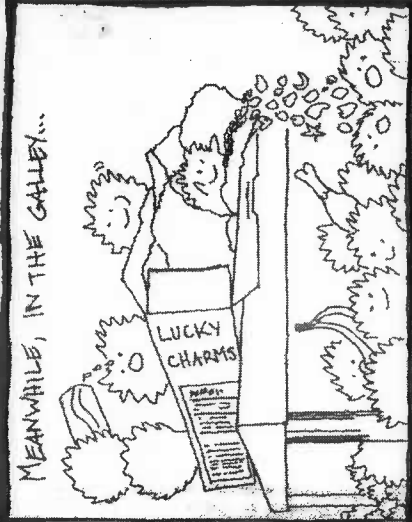
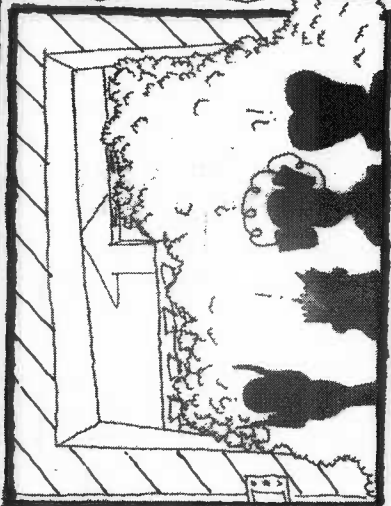
IDEAS, THE FINAL FRONTIER. THESE ARE THE VOYAGES OF THE STARSHIP INVENTERPRISE. OUR CONTINUING MISSION: TO EXPLORE STRANGE NEW PLACES, TO SEEK OUT NEW IMPROVEMENTS AND NEW USES, TO BODILY GO WHERE NO ONE HAS GONE BEFORE.

INVENTERPRISE HAS LANDED ON AN UNEXPLORED PLANET ON THE EDGE OF THE KNOWN UNIVERSE.



# SWISH

SOUND OF DOOR OPENING)



**The world's human population is over 6 billion and rising!**

**If we stood all of those people on each other's shoulders, the stack would reach to the moon and back 20 times!**

**Welcome to our contest, Invention Enterprise 2002.**

**Here's the problem:**

**What changes will we make to meet the challenges caused by the human population increase?**

**The next pages contain some ideas to help you get started.**

### **Official Rules**

1. Any K-12 student in Central Oregon may enter.  
Sure, you may enter with friends (K-8, groups no larger than 3 students; high-school, individuals only).
2. Use any format you like for your contest entry, such as pictures, models, board games, descriptions, computer programs, dramas, tapes, or whatever medium best conveys your ideas.
3. All entries must be received by **5:00 p.m. Friday, November 15, 2002**, at

Bend Research, Inc.  
64550 Research Road  
Bend, OR 97701

4. Include your first and last name, teacher, grade, and school on the entry form provided. Cut it out and attach it to your entry. **Make sure your name is on each piece of your entry.** Your entry will be returned to you if you check the appropriate box on the entry form.
5. A panel will judge entries for creativity, originality, and how well ideas are developed to address the problem. **Entries must not defy the laws of nature.**
6. Fabulous prizes (specially designed T-shirts) will be awarded to the top several entrants in each grade, K-8. Less-fabulous prizes will be awarded for good efforts.
7. **A \$1000 scholarship** will be awarded to the best high-school entry.
8. Winners will be announced by December 2, 2002.
9. Have fun!

**For more information, call Steve at 382-0212, ext. 164, or Laura at 382-0212, ext. 179.**

Invention Enterprise is sponsored by Bend Research, Inc., with help from the Bend-LaPine School District.

# Topics To Consider

- Agriculture**      How will farming, fishing, and ranching support our increased population?  
What new equipment will increase production for farming, fishing, and ranching?  
What new types of food production will emerge?  
What new techniques will increase plant and animal food production?  
What new plants and animals will be raised and harvested?
- Manufacturing**      What new factory food production will occur?  
How will foods be produced, protected, processed, and delivered?
- Natural resources**      How will we deal with the impact on lands, water, and air from human population increases?  
How will we safeguard our land, water, and air quality against the increasing human presence?
- Technology**      What gadgets will be developed to help citizens cope with more people?  
Will the traits of plants or animals be modified to better cope with ever-increasing human populations? Describe these changes.
- Community**      How will humans change their homes, towns, cities, and themselves to cope with ever-increasing numbers?

**Choose one of these topics or many! Or you can invent your own topic relating to the increase in human population.**

## Inventerprise 2002 Entry Form

Grade \_\_\_\_\_ School \_\_\_\_\_ Teacher \_\_\_\_\_

Student Name(s) \_\_\_\_\_ Entry Title \_\_\_\_\_  
first last

\_\_\_\_\_ first last \_\_\_\_\_

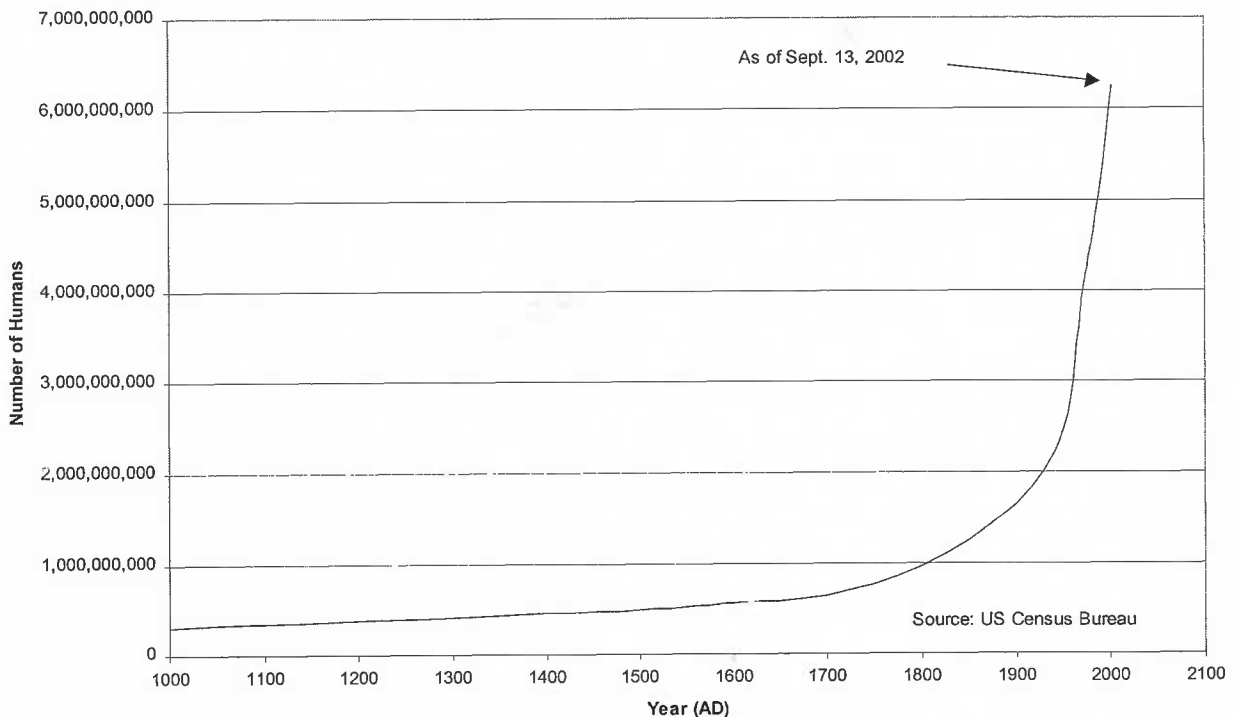
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Check box if you want you entry returned

Make sure your name is on each piece of your entry.      Number of entry parts \_\_\_\_\_

Please cut out and firmly attach this entry form to your contest entry

## Human Population Growth During Last 1000 Years



### How much is 6 billion?

- A six with nine zeros after it.
- If all 6 billion humans were in the lunch line ahead of you, and one person got his lunch and left the line every second, it would still take you 190 years to get to the head of the line and get your lunch.
- If the average human is 5 ft. tall, and we laid all 6 billion humans end to end, they would stretch 5,681,818 miles. That human chain would circle the globe about 227 times.
- If the average human is 5 ft. tall and 18 in. wide at the shoulder and we laid all 6 billion humans on their backs, shoulder to shoulder and head to toe, they would cover more than 1600 square miles. That's enough to cover most of Jefferson County, or well over half of Deschutes or Crook counties.
- If the average human is 18 in. wide at the shoulder and measures 12-in. chest to back, and we have all 6 billion humans bunch up together standing, they would take up around 320 square miles of space. That's a square with sides about 18 miles long or enough to completely cover 2 cities the size of Portland, Oregon (147 sq.mi.).
- If we stood all 6 billion humans into Deschutes or Crook County and spaced them evenly, there would be 1 person for every 14 sq.ft.
- If we stood all 6 billion humans into Jefferson County and spaced them evenly, there would be one person for every 8 sq.ft.