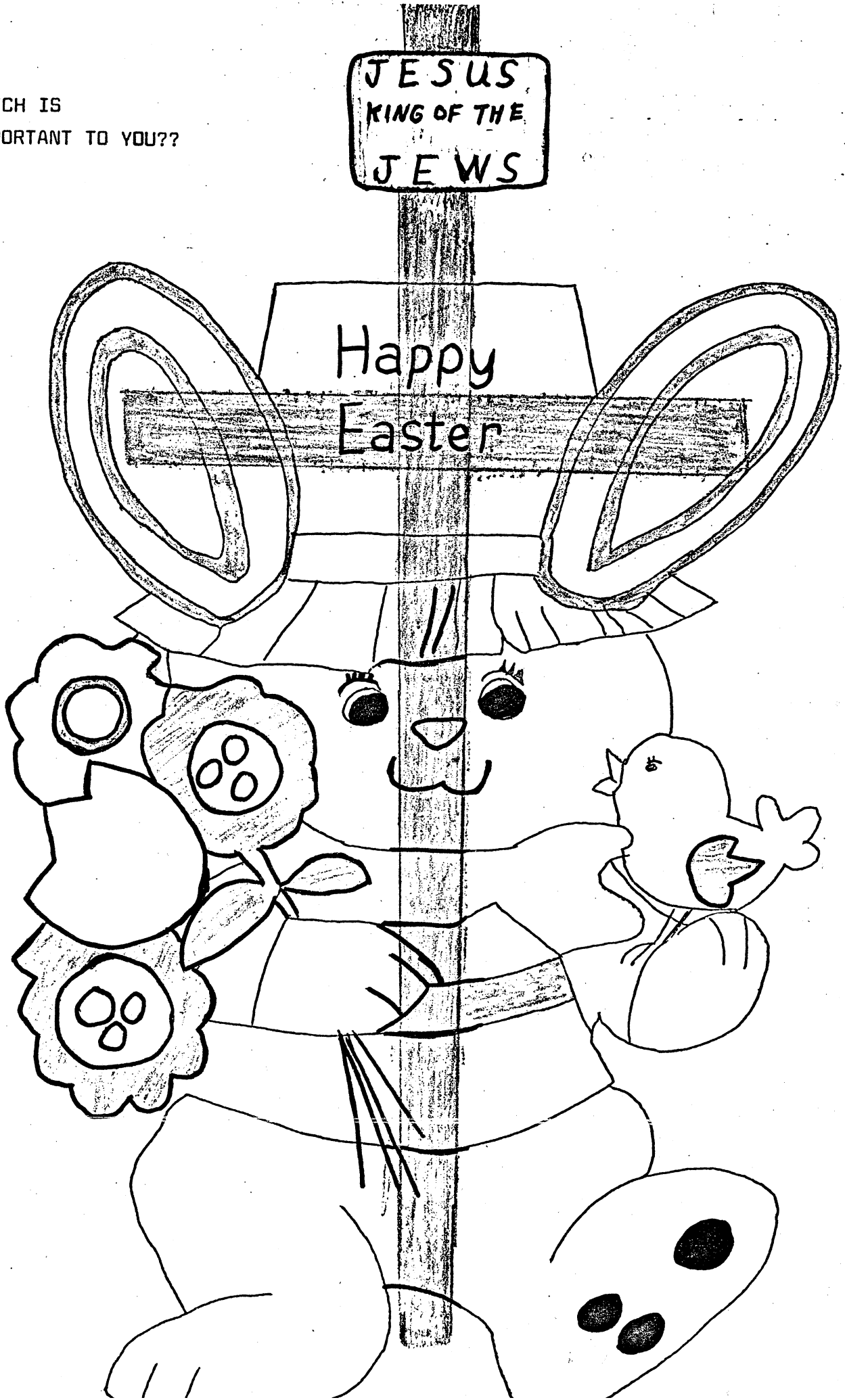


WHICH IS  
IMPORTANT TO YOU??



State of Art---Dave Stuber  
Puzzle Page----Gerald Stanley  
Women's Page---Walda Sylvester  
Publishers-----Lucy Miller  
                  Phyllis Gates  
Cover-----Don Florea  
                  Mary Ellen Wade

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#### CARRY-IN DINNER

On June 14 we will have a Carry-in Dinner and the CROWN Representatives will be here to fellowship with us. Meat & beverage will be furnished. Bring a covered dish and your own table service!

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Line # 1..or Better known as:

"The Amp Line".....Cheryl Crow

Assistant supervising on the Amp Line is fascinating work. You get to do all kinds of things.

I think one of the best things I like to do is call on the Engineers for help, I learn many new things, but it also gives them something to do! Just ask Randy Lehr, or Verne or Ray or....!!

I do many things on the line other than supervise; I wire, I assemble, I inspect and sometimes even a make-shift technician.

Richard McCreary has been a great help to me though. I can always go to him when I have a problem, explain to him what it is, and know that he will reply with "SO" followed by a hardy laugh. This always lets me know that I'm not the only one that doesn't know

(cont. next col.)

#### Amp Line cont.

the answer.

We made it through Inventory with flying colors. Not even one missing Card this time. And now that the March push is over maybe we can settle down to a normal??? pace!!

We all are very attached to the Amp Line, and do great work. Even with a minimum of complaints from "Miller's Men" we just keep pushing along. As a matter of fact, Arlene Mishler is so attached to the line that she couldn't force herself to leave us for a week and go to Florida with a sick friend.

With Lois Clem being such a close neighbor, I constantly bother her for things, such as Time Sheets when I have forgotten to get some before Electa leaves. This encounter gives us a chance to compare our bowling teams and our scores...among other things.

In all, the Amp Line is great, and as for all of us, "We'd rather fight than switch!"

\*\*\*\*\*

#### He's Prepared

The very rich man was interviewing an applicant for the position of his personal valet. "You may have trouble with me," he said. "I have an artificial leg, a glass eye, a hair-piece, and false teeth."

"That won't bother me," replied the applicant. "I used to work on an assembly line."

## SOLVE....Instruments vs Ears

by...Verne Searer

Which way is the best way to test and evaluate speakers: subjectively or objectively?? The Midwest Acoustics Conference held at Northwestern Univ., Evanston, Illinois was to help us to a meaningful conclusion.

Saturday, April 7, 1973 at 7:00 a.m., ten of us left the Elkhart area and sleepily headed toward Chicago. The conference opened with a historical review of speakers by Mr. Paul Klipsch (born in Elkhart) of Klipsch and Assoc., Inc. of Hope, Arkansas and makers of "world famous Klipschorn Loudspeakers." One of the things he brought out was the manufactures of the early victrola claimed you couldn't tell it from a live performance!

The morning seminars covered objective parameter measuring techniques and the effects of the room on speakers performance.

After lunch we toured Northwestern's Psychoacoustical Labs and Anechoic Chambers used to test human hearing and animal experimentation.

The afternoon seminars started off with Raymond Carhart of Northwestern Dept. of Audiology explaining some of the tricks the human ear plays on us and common hearing disorders.

Following this the "subjectives" took the stage: C.G. McProud...Audio Magazine, and Julian D. Hirsch..Hirsch-Houck Labs (reviewer's for Stereo Review magazine). These men aimed their discussion at how an individual should evaluate speakers for himself. "Buy what you like to hear because you're the one who,

(cont. next col.)

## Resolve cont.

has to listen."

The closing was a "discussion" of objective vs subjective evaluation.

The conclusion of conference was---- we were tired and ready to come home!

\*\*\*\*\*

## State of the Arts.....Dave Stuber

First off, Dennis Gerard told me to be sure to say that he has ordered a new Mustang Convertible. so I had to say it to make him happy.

Opie (Jim Wordinger) did get a new car. He got a Toyota Celcia.

Dennis Carroll got a new Pontiac Grand Prix last month, but I missed it. Sorry, Dennis.

No new employees this month, but there are a couple who are back again.

Teresa Ryman is back working in Incoming Inspection nights, and Jim Clymer is back helping in the Service Department.

Steve O'Dell has been transfered from the Machine Shop to the Stockroom.

If any of you have been wondering about the chicken coop back in the cardboard room, it isn't really a chicken coop, it's the new Ham room being built by the Ham Club in their spare time, & I'm sure everyone knows how hard spare time is to come by.

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## NOTICE!!

CROWN Employee Assembly By-Laws are posted on the bulletin board.

Last Month's Puzzle Answers:

The Elderly Riddells:

The answer to the age of the Riddells, Mr. & Mrs. is 88 and 69 years respectively.

There are only 4 possible ages that could be assigned to them that read the same when read upside down, these being 69, 88, 96, and 101 years.

The difference (viewed upside down) of their ages is the wife's age of 8 years ago. The only combination of the above which yeilds an acceptable result is 69 and 88 years where the difference of 19 inverted is 61 or 8 less than 69 which is then the wife's age.

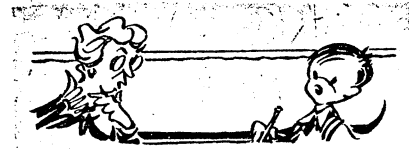
The Coal Problem:

The answer is 531,441 tons. Since the cube and square roots of the number are each integers it is implied that the sixth root of the number is an integer. Now 10 to the sixth power is a million exactly and thereby too large. Eight to the sixth power is 262,144 which is less than half a million or too small. Only 9 to the sixth power remains which is the answer 531,441.

??

**35. THE DUKE'S FIELD**

Taxes being ruinous the Duke decided to sell some of his land. He had a square field which a farmer was anxious to purchase but could not agree with the agents as to the true size of the field. He maintained that its side was one yard shorter than the agents had advertised and that its area was in consequence some 35 square yards less. What was the advertised area of the field?



**ALL FIGURED OUT**

After due reflection, a rural schoolteacher decided to give full credit to a pupil for his answer to a simple arithmetic problem.

The question: "If your father sold 1,500 bushels of grain for \$2 a bushel, what would he get?"

The answer: "A new car."

**27. sonny boy's letter**

It seems that, once upon a time, a college student found himself with some debts, a heavy date coming up, and no money. His credit among his fellow students was not too good and, since it was the end of the month, all his friends were also short of funds. As a last resort, he decided to appeal to his father. Having a sense of humor and knowing his father was an expert at deciphering codes, he sent his father the following message.

Dear Dad,

Each letter in this message represents a different digit. Please send me the amount of cents shown by this sum.

$$\begin{array}{r} \text{S E N D} \\ + \text{M O R E} \\ \hline \text{M O N E Y} \end{array}$$

Love to Mom.

Signed,  
Sonny Boy

How much money did Sonny Boy ask for?

**THE EDITOR** was interviewing an applicant:

"How would you write a good headline for the following situation? A young couple got a preacher out of bed at 3 a. m. to marry them. How would you title that?"

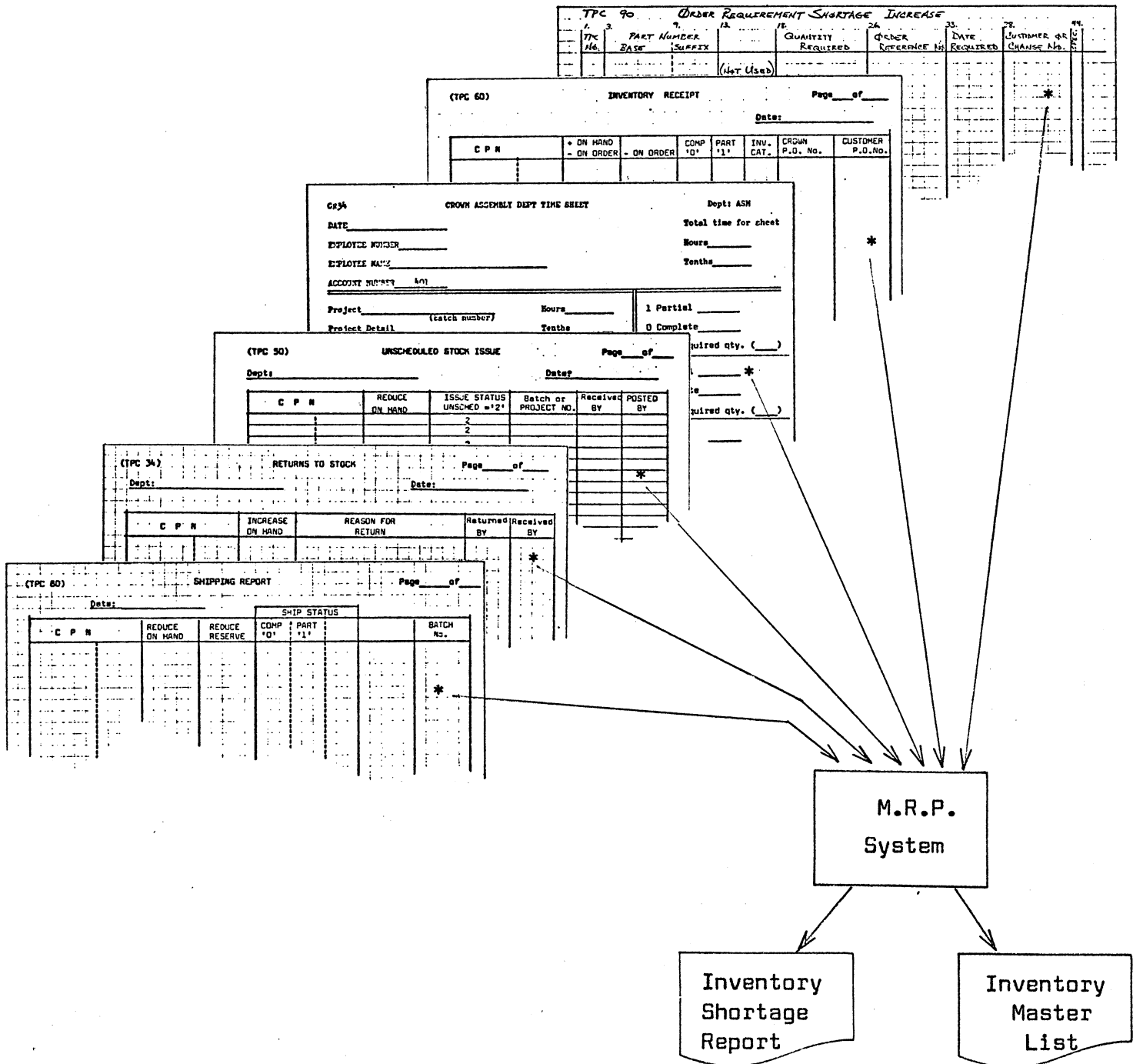
"Oh, that's easy," said the youth. "I'd just head it 'Parson Ties Knot in His Shirttail.'"

## M E E T   M R P.....Ken Yoder

Just what is MRP? Who actually makes it work? In an endeavor to answer these and other questions you may have, I'd like to write about the largest and probably the primary segment of the MRP system.

MRP means Material Requirements Planning, and as the name implies, the ultimate objective is to aid the Purchasing Department in "Planning" their material purchases in order to meet the production requirements. This is an extremely complex function today, especially for a relatively small manufacturing company. More on this later.

Following is a pictorial view of main body of the MRP system.



M E E T    M R P....CONTINUED..page 2

As you can see, there are multiple inputs to the system, with two reports produced which show the net result of these various activities. Following is a brief description of the forms used to gather input information for MRP.

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[illegible]

Mr. Scholfield, Mr. Clyde Moore and Mr. Ryman periodically determine what Crown's production schedule should be for the future months. When this schedule is finalized, Mr. Ryman enters this information on the production requirements form shown above. He enters the CPN of our finished product, the batch quantity, batch number and the date we want the batch finished and ready for shipment, for each batch. MRP takes these requirements and "explodes" them down to identify all of the purchased parts needed to build the products. Those parts which have insufficient stock, are printed on the following shortage report which cues the Purchasing Department to order them. The column marked 'Date Required' shows the earliest date the part will be needed at its "Point of Assembly".

DATE 15/03/73		INVENTORY SHORTAGE REPORT ( BOTH )							PAGE 10		
PART NUMBER	DESCRIPTION	CUST NUMBER	ORDER REFERENCE	SHORTAGE NUMBER	QUANTITY REQUIRED	USE UNIT	DATE REQUIRED	LEAD TIME	LOW LEVEL	SRC CDE	NET CDE
2207CHR	6/32X5/8 OHP SCREW			22046	500	EA	72/325	7	8	1	1
2247	4/40X3/8 FMS SCREW			25263	5000	EA	73/022	14	9	2	1
2247CAD	4/40X3/8 FMS SCREW			22059	600	EA	73/029	7	8	1	1
2270	8/32X3/4 THP SCREW			8002	10000	EA	72/324	14	4	2	1
2274CAD	8/32X3/8 FHP SCREW			11138	1000	EA	73/021	7	5	1	1
2275	8/32X1/2 FHP SCREW			14775	1000	EA	73/011	14	6	2	1
2318	30KOHM HORIZ-ORG POT			1342	500	EA	72/321	56	1	2	1
2324	100KOHM .5W 5% MF			14782	1000	EA	72/321	28	6	2	1
2334	CX RECORD SWITCH-POT			14795	500	EA	73/059	70	6	2	1
2336	5KOHM AUDIO PR8615			22062	750	EA	73/071	70	8	2	1
2337	100KOHM AUDIO PR8616			22075	627	EA	73/029	70	8	2	1
2341	100KOHM AUDIO POT			22088	500	EA	73/029	70			
2355	5.6 OHM 1/4W COHP				6744	EA	72/363	20			
2359	LEP					EA	73/036				

As parts and material are received in the Stockroom, Dan Cripe records each receipt on the above form. When input to MRP the system will increase the "On Hand" and decrease the "ON Order" for these parts by the quantity recorded.

\*\*\*\*\*

I'm sure this form (and others similar to it) need no great explanation. IT is, however, an important link in the MRP chain. For every CPN reported by timesheet, it's "On Hand" is increased and it's "On Order" is decreased on the MRP Inventory Disc File. A second very essential function is done automatically by the system at this point. In order to complete a typical assembly, purchased parts, fabricated parts and other assemblies may be needed. If these other parts and assemblies are used up (in making the new assembly), their respective quantities "On Hand" should be reduced. The system automatically

reduces both the "On Hand" and the "Reserved" quantities by the number that were used by the actual assembly operation. The "Reserved" quantity for a part is that quantity which is necessary in order to fulfill the production requirements described earlier. In other words, in order for the scheduled batches to be built, the reserved quantities for all the parts must be, and literally are "reserved" for that purpose.

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[illegible]

Any parts to be checked out of stock which are for purposes other than "scheduled production requirements", should be recorded on the form shown above, located at the rear of the stockroom. These entries simply cause the reduction of the "On Hand".

\*\*\*\*\*

[illegible]

This transaction is the counterpart of the "Unscheduled Stock Issue". It is used to check parts into stock, and simply increases the "On Hand" quantity for that part.

\*\*\*\*\*



(TPC 80)		SHIPPING REPORT				Page ____ of ____	
Date: _____							
C P N		REDUCE ON HAND	REDUCE RESERVE	SHIP STATUS COMP '0'    PART '1'		BATCH No.	

As completed products are shipped, they are reported to the system via the above form. It reduces both the "On Hand" and "Reserved" quantities for the finished CPN.

\*\*\*\*\*

All of the transactions described above are essential links in MRP's chain of events. If any one transaction is not handled correctly, MRP will have lost inventory control of that, and possibly other CPN's, and much effort is required to interpret, unscramble and rectify the problem. Although it sounds like a big challenge, the system requires strict continuity of reporting from the input of production requirements, through receipt of the parts, through completed production at every level of assembly, and terminating with the shipping report.

The Inventory Master List shown below is the report which displays the perpetual inventory to us for reference purposes.

DATE 04/11/73			I N V E N T O R Y   M A S T E R   L I S T											PAGE 16	
C P N	DESCRIPTION	U/M	STK LOC	FIRST DEPT.	LD N TIM C	REORD POINT	E00	ON HAND	ON ORDER	RESERVE	AVAIL	INV CAT	EARLST SHORTG	TOTAL USAGE	LAST ACTIVITY
1683	BUMP M167 STEM ROUND	EA		STK	28 1	5500	15000	7361	0	1800	5561	R	00/000	48	04/03/73
1685	1/4 LUCITE ROD	IN		STK	35 1	120	720	2016	0	58	1958	R	00/000	0	03/15/73
1693	•0039MF PACER	EA		STK	42 1	350	1000	332	1000	64	1268	R	00/000	336	04/03/73
1694	4.4 X .19 IMPR BELT	EA		STK	42 1	50	325	181	0	0	181	R	00/000	0	06/10
1698	3/16" NYLON SPACER			K		200	1000	0	0		0	R	00/000	0	

This view of MRP is only a partial view of its entire scope. I do hope, however, that it has shown the concept that MRP touches many areas of the organization, and that the majority of the Crown employees are truly responsible for its operation.

Mother Walda's Good old Fashioned Sweet Hiccup Cure:

"A recent experiment has shown that a spoonful of ordinary table sugar, taken dry, will cure the hiccups. In a letter to the New England Journal of Medicine, 3 doctors report that the simple sugar cure worked on 19 of 20 chronic hiccups. Three of them suffered a recurrence of the annoying problem within one to 24 hours after the first sugar treatment, and all 3 responded to repeated doses of sugar". (R.C. Smith, Today's Health)

It's Spring cleaning time and here are a few helpful hints contributed by our own Lucy for you:

Cobweb problems? The pile-lined hood from a discarded winter jacket makes a good cover for a dust mop. It can be washed easily, and the drawstring holds the cover in place!

To remove tomato and berry stains from cotton clothes, swab the spots with a cotton ball that has been dipped in white distilled vinegar, then sponge off with cold water.

Here's a new way to spring clean the children: "A four-year old, very shy to soap and water, was putting up his usual series of tearful arguments about why he should not have to take a bath,

"You want to be clean, don't you?" asked his mother as she half-pulled him to the bathroom.

"Yes," sobbed the tot, "But why can't you just dust me off like you do the furniture?"

Dan Cripe's Easter Prayer:

"Father, our hearts are gladdened because of Easter; we praise you for offering your Son, who gave Himself willingly that we might receive the gift of eternal life. We praise you for a risen Saviour who lives and cares for our needs today. For these things we are truly grateful. In Jesus' Name, Amen."

\*\*\*\*\*

I toured Crown as an Easter Bunny Ambassador and asked a few people what Mr. Bunny could bring them for Easter. Lois Clem wanted a bouquet of flowers and Lois Roberts wanted some Este Louder perfume--so that was easy to fulfill. And Sylvia wanted Good Health and Happiness+! Electa thought two plane tickets to California and back would be lovely and Richard McCreary just shouted, "Tell him to bring money!"

But then I had to ask Mr. Bunny to take a few health and body building courses to build himself up in order to deliver Dave Stuber's 750 Honda (weights a ton), and Steve Peer thought it would be a fantastic sight to see Easter Bunny hop in with a new house.

John Bachman said his tax return would be most welcomed, and Zelma Morgan wished for a vacation to be bestowed upon her.

And all Randy Lehr wanted was \$1,000,000,000 to pay off his debts as far as it would go.

(I've already put Dick Platener's ice cream cone order in-----a cone a day forever!)

*Antin...*  
*Wh...*  
*James Estes*

"Look, a hippie!"

\*\*\*\*\*

THAT'S ALL FOLKS!!!

No one was especially interested in the night watch that had been ordered to the Jewish burial garden in the midst of the Passover season. Lucian had been less interested than most, because he was more inclined toward self-preservation than many of his fellow soldiers and had observed that this time of year was more dangerous than most to be fooling around with anything the Jews held sacred. He could scarcely blame the Jews for this. They were a fiercely proud and independent people, and they took seriously their self-assured position as the race chosen to hold up the revelation of the one true God for the rest of the world to see. Lucian had been assigned to the Jerusalem garrison, quartered in the Fortress of Antonio on the edge of the Temple grounds, for nearly 2 years, and except for the continual awareness that the smoldering feelings of the local citizens were at the point of producing a full-scale rebellion, it was no worse and no better than the time he had put in at a half-dozen other army posts. He had observed the populace and had reached a level of understanding of the strong feelings generated by their forced subservience to Roman rule.

Their religion mystified him. The Roman gods were like people. They did the same foolish and criminal things, and could be bargained with. He couldn't really think of any acquaintance who looked on the Roman gods with any more awe or reverence than that which was accorded a commanding officer, or perhaps a powerful business man who could control other lives with his influence. But these Jews were a different case. There were skeptics and religious frauds & to Lucian's mind, an unnecessary amount of religious show among them, but the people as a whole worshipped a God who didn't seem to have the character, or lack of character, that came with the Roman Gods. Instead of a human image, their God seemed to be superhuman, in the sense that He didn't react to situations in the ways people might be expected to react. Admittedly, Lucian had not gone very deeply into Jewish beliefs, but his impressions were that even the religious authorities, with their sometimes evident greed and false piety, had somewhere in their background a very substantial foundation for the religious structure that they sometimes honored and sometimes desecrated.

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On night watches the off-duty men usually built a fire to serve as a general assembly point and to keep out the damp discomfort of the Judean hills. Lucian had served one shift and stared into the fire while waiting for either sleep or his next watch. Some of the things he had learned on the march over here were puzzling. It turned out that they were guarding not the tomb of a Jewish holy man, but that of some sort of religious insurrectionist.

Over the past few weeks the emotional level of the Jewish population had increased as usual along with the temporary increase in number that came with the Passover season. Also as usual, there was a general current of rumors about the imminent appearance of the Messiah and the end of Roman rule. Only this year a man had come to fill the role, someone who remained separate from the Temple authorities and who had even defied them, criticizing their obedience to their own personal ends rather than the will of God. At the end of their patience and fearful of the Man's influence, the authorities had laced together a charge of blasphemy and gotten the Man condemned to death. A day or so ago He had been crucified, and the word was that the sky had turned black and the earth had shaken during His slow death on the wooden cross.

After the Man died, one of his few rich friends had risked offering his own unused tomb in a nearby garden, and the Man who had stirred hope among the common people and fear among the Temple leaders, had finally ended His career in a stone crypt.

The following morning the Jewish authorities had persuaded the governor to seal the crypt officially and place a guard. They were afraid, they said, that the Man's disciples would try to fake a fulfillment of one of His prophecies. He had claimed long before He had been condemned that he would come back from the grave after three days.

So now Lucian was one of a half-dozen weary soldiers sitting next to a sealed grave in the chilly darkness. The day watch had reported nothing unusual and it seemed likely that the authorities' fears were baseless. Any group as poorly armed and organized as this man's followers were reported to be could hardly be ready to fight the Roman army for a dead body.

All of these things Lucian had heard, and as he grew more and more sleepy before the fire, he decided that it was simply another side of the mysterious Jewish religion that called forth and disposed of leaders and messiahs while waiting for some unanswerable final revelation of their God.

\*\*\*\*\*

It must have been several hours later, Lucian reasoned after it was all over, that he awoke with the immediate sensation that something terrible was happening. The earth seemed to be shaking, and in his half-awake recognition of this fact he remembered where he was and the reports of the strange happenings that accompanied the entombed Man's death. The rest of the watch had felt the same tremors, and were up trying to see in the darkness what was happening, adding to the rumbling of the ground their muttered oaths that indicated not so much any disrespect for the gods as the soldiers' complete bewilderment

and developing fear. With no further warning and with a thunderous crash there suddenly appeared a brilliant light in the vicinity of the heretofore quiet grave, and what looked vaguely like a human figure in the middle of the light, seemed to be immediately on top of the tomb!

Roman soldiers fear very little in the way of human force, with the authority of the entire Empire behind them, but they know as little as anyone about fighting the unknown, and the entire watch dived into the bushes, rocks and trees to find whatever pitiful shelter was available. The whole brief and violent series of events left Lucian with stunned senses and he did not remember much distinctly after that. Things quieted down, and the leader of the watch, who had to report something, got close enough to report that the body was gone and that he was in favor of going too!

They determined to see the Jewish authorities first, since it would put them in a very dangerous position to admit the loss of a body to supernatural forces. They discussed the events in awed tones, unable to account for the incredible display and worried about their own fate.

The council with the Jewish leaders was short. After the immediate consternation raised by their report, the leading priests and other officials that had been raised, quickly got together and assembled a story blaming the dead man's disciples for stealing the body. At first the soldiers would have none of this, because it meant they were liable for the loss of the body and would be punished for failing in their responsibility. The priests countered by indicating that they would use their considerable influence with the Roman authorities to keep the soldiers from being punished. They furthermore offered the soldiers some money and pointed out that the account the soldiers had given the priests would be even more dangerous, since no proof at all could be offered and it was considerably harder to believe on the surface. Finally the soldiers left, hoping for the best in a very uncertain situation.

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Later Lucian stood by himself near the top of the Fortress of Antonio. He looked down on the Temple grounds and thought about what he had experienced. None of the other witnesses really believed the story about the disciples stealing the body, and he wondered if the lie would work. Something had taken place that completely outstripped his senses, and he didn't want to forget it. He had finally gotten a personal glimpse of the supernatural power claimed by these stubbornly religious people. Maybe the Man who had been crucified hadn't been officially accepted, but somehow He fitted the supernatural image of the Jewish God. Looking down at the deserted Temple area, Lucian wondered where the Man's disciples had gone. They doubtless wouldn't have much use for a

Roman, but they might consent to tell him more and he had a feeling that the crucified Man's influence hadn't ended. Something had happened to empty that grave, and Lucian meant to discover how it had happened.

\*\*\*\*\*

HE AROSE!

Lo in the grave He lay,  
Jesus my Savior,  
Waiting the coming day  
Jesus my Lord!

\*\*\*\*\*

Vainly they watch His bed,  
Jesus my Savior  
Vainly they seal the dead,  
Jesus my Lord!

\*\*\*\*\*

Death cannot keep his prey,  
Jesus my Savior,  
He tore the bars away  
Jesus my Lord!

\*\*\*\*\*

Up from the grave He arose  
With a mighty triumph o'er His foes,  
He arose a Victor from the dark domain,  
And He lives forever with His saints to reign:  
He arose! He arose!  
Hallelujah! Christ arose!