



Volume 8 - Number 1

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# Newsletter

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Robin Starr-Chichester (Conifer, CO) - President; James V. Schoster (Wisconsin) - President Elect, James T. Case (UC-Davis) - Secretary Treasurer; Ronald D. Smith (Illinois) - Newsletter Editor

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## ASSOCIATION NEWS

### How to Contact AVI

Applications for membership, accompanied by a check for \$35 payable to the AVI, should be sent to:

Dr. James T. Case; Secretary Treasurer, AVI;  
1590 Augusta Ct., Dixon, CA 95620  
Phone: 916/752-4408; FAX: 916/752-5680; e-mail: JimCase@aol.com

Membership application forms are available online at:

<http://netvet.wustl.edu/avi.htm>

Dr. Case is responsible for distribution of the hardcopy version of the AVI Newsletter.

Newsletter items can be sent to:

Dr. Ronald D. Smith, Newsletter Editor, AVI;  
UI College of Veterinary Medicine; 2001 South Lincoln; Urbana, IL 61801.  
Phone: 217/333-2449  
FAX: 217/333-4628  
E-mail: <rd-smith@uiuc.edu>

If you are an AVI member and would like to be on the AVI Newsletter electronic distribution list, send an e-mail message to the Newsletter Editor. Although the electronic version is only an ASCII (text) file, it's faster, searchable, easier to store and retrieve, and environmentally friendly.

Current and past issues of the AVI Newsletter are also available on the Web at:

<http://netvet.wustl.edu/avi.htm>

### 1999 Talbot Symposium

From: James Schoster  
<schoster@svm.vetmed.wisc.edu>

The 1999 Talbot Symposium schedule has been completed. Please go to

<http://schoster.vetmed.wisc.edu/TalbotSchedule>

to see the details. We hope to see you all in New Orleans!!

Jim Schoster

## CORRESPONDENCE

### Evidence-Based Medicine

From: Ann Viera <viera@aztec.lib.utk.edu>

Veterinarian John Gay has put together some enormously useful and well-researched resource lists on his home page at the Washington State University College of Veterinary Medicine. The first part of it that caught my eye was the list entitled WWWeb Epidemiology & Evidence-based Medicine Sources for Veterinarians. As he states, this list of links will appeal to veterinarians and students

interested in pursuing topics relevant to statistics, epidemiology, and evidence-based medicine. But there's more...including an epi-glossary, guidelines for assessment of professional information, philosophy of science, animal restraint, herd production medicine....the list goes on and on, and so should you, for a visit.

(Editor's note: see also "'Virtual Rounds' EBM Exercise on the Web" in the PRODUCTS & REVIEWS section of this issue)


# A JAVASCRIPT DECISION SUPPORT TOOL FOR THE WEB

**Kurt L. Zimmerman, D.V.M**  
**Clinical Pathology Resident**  
**Ph.D. Candidate - Biomedical Informatics**  
 e-mail: kzimmerm@vt.edu

Web pages can be greatly enhanced by the use of JavaScript. This is a simple example of how JavaScript can be used to turn a static web page into a powerful interactive calculator. In this example, two different drugs used to treat Addison's patients are compared. The doctor can very rapidly see the outcome of a variety of different scenarios of the final cost of the drug to the consumer by varying several variables: the initial cost of each drug, the desired markup on each medication, and finally the weight of the patient (Figure 1).

**Figure 1. JavaScript Cost Comparison Calculator**

### Cost Comparisons

Item	Percorten™ V	Florinef
Price	\$74.40 per 4 ml vial	\$0.60 per 0.1 mg Tablet
Dose	1mg/lb/25 days given IM	0.01mg/lb/day PO
Markup	0 %	0 %
Dog Body Weight	40 lbs	
Amount Needed	1.6 mls / 25 days	4 tablets / day
Cost 25 Days	\$ 30.00	\$ 60.00
		

The code for this example HTML page is as follows:

```
<HTML>
<HEAD>
<TITLE>Cost Calculator </TITLE>
<SCRIPT LANGUAGE="JAVASCRIPT">
    function calculate()    // every time a new option is selected this function is called
    {
        choice=document.compare.priceD.selectedIndex;
        // holds the selected price of DOCP
        priceD=document.compare.priceD.options[choice].value;
        choice=document.compare.priceF.selectedIndex;
        // holds the selected price for Florinef
        priceF=document.compare.priceF.options[choice].value;
        choice=document.compare.weight.selectedIndex;
        // holds the selected weight of the dog
        weight=document.compare.weight.options[choice].value;
        choice=document.compare.markupD.selectedIndex;
        // holds the selected markup to apply to the DOCP
        markupD=document.compare.markupD.options[choice].value
        choice=document.compare.markupF.selectedIndex;
        // holds the markup to apply to Florinef
        markupF=document.compare.markupF.options[choice].value

        // calculates volume of drug needed for 25 days for DOCP
        resultD=eval((weight*1.0)/25.0);
        // rounds the result to 2 sig digits
        resultD=eval(Math.round(eval(resultD*100))/100);
        if ( resultD < 1.0)
        {
            resultD="0" + resultD;
        }
        // calculates the cost based upon vol used
        costD=eval((priceD/4.0)*resultD);
        costD=Math.round(costD*markupD);
        // places the results for DOCP in the calculator display
        document.compare.amountD.value=resultD;
        document.compare.costD.value=costD + ".00";

        // calculates number of tablets for 25 days for florinef
        resultF=eval(weight/10);
        // calculates the cost based upon amount needed used
        costF=eval(priceF*resultF*25);
        costF=Math.round(costF*markupF);
        // places the results for Florinef in the calculator display
        document.compare.amountF.value=resultF
        document.compare.costF.value=costF+ ".00"
    }
</SCRIPT>
</HEAD>
<!--Start of the page -->
<BODY>
<BR><FORM NAME='compare'>
<CENTER>
```

```

<!--Table to hold the calculator -->
<TABLE BORDER CELLSPACING=1 CELLPADDING=7>
<CAPTION><H1>Cost Comparisons</H1></CAPTION>
<!--Title line in calculator -->
<TR><TD><B>Item</B></TD><TD><B>Percorten&#153;-V</B></TD>
<TD><B>Florinef</B></TD></TR>
<!--Select price line in calculator -->
<TR><TD><B>Price</B></TD>
<TD><SELECT NAME='priceD' onChange='calculate()'>
  <OPTION SELECTED VALUE='75'>$74.40
  <OPTION VALUE='80'>$80.00
  <OPTION VALUE='85'>$85.00
  <OPTION VALUE='90'>$90.00
  </SELECT>&nbsp;per 4 ml vial</TD>
<TD><SELECT NAME='priceF' onChange="calculate()">
  <OPTION SELECTED VALUE=".6">$0.60
  <OPTION VALUE=".7">$0.70
  <OPTION VALUE=".8">$0.80
  <OPTION VALUE=".9">$0.90</select>&nbsp;per 0.1 mg Tablet</TD></TR>
<!--Dose line in calculator -->
<TR>
<TD><B>Dose</B></TD><TD>1mg/lb/25days given IM</TD><TD>0.01mg/lb/day PO</TD>
</TR>
<!--Select markup % line in calculator -->
<TR ><TD><B>Markup</B></TD>
<TD ><SELECT NAME="markupD" onChange="calculate()">
  <OPTION SELECTED VALUE="1">0
  <OPTION VALUE="1.20">20
  <OPTION VALUE="1.40">40
  <OPTION VALUE="1.60">60
  <OPTION VALUE="1.80">80
  <OPTION VALUE="2.0">100
  <OPTION VALUE="4.0">200
  </SELECT>&nbsp;%</TD>
<TD ><SELECT NAME="markupF" onChange="calculate()">
  <OPTION SELECTED VALUE="1">0
  <OPTION VALUE="1.20">20
  <OPTION VALUE="1.40">40
  <OPTION VALUE="1.60">60
  <OPTION VALUE="1.80">80
  <OPTION VALUE="2.0">100
  <OPTION VALUE="4.0">200
  </SELECT>&nbsp;%</TD></TR>
<!--Select body weight line in calculator -->
<TR ><TD><B>Dog<BR>Body Weight</B></TD>
<TD COLSPAN="2" ALIGN="CENTER">
<SELECT NAME="weight" onChange="calculate()">
  <OPTION VALUE="10">10
  <OPTION VALUE="20">20
  <OPTION SELECTED VALUE="40">40
  <OPTION VALUE="60">60
  <OPTION VALUE="80">80
  </SELECT>&nbsp;lbs</TD></TR>
<!--Displays the calculated amount needed results in the calculator -->

```

```

<TR><TD><B>Amount<BR>Needed</B></TD>
<TD><INPUT TYPE="TEXT" NAME="amountD" VALUE="1.6" SIZE=5 onFocus="blur()">
&nbsp;mls / 25 days</TD>
<TD><INPUT TYPE="TEXT" NAME="amountF" VALUE="4" SIZE=5 onFocus="blur()">
&nbsp;tablets / day</TD></TR>
<!--Displays the calculated cost based on amounts needed in the calculator -->
<TR><TD><B>Cost<BR>25 Days</B></TD>
<TD>${&nbsp;};<INPUT TYPE="TEXT" NAME="costD" VALUE="30.00" SIZE=5
onFocus="blur()">
</TD><TD>${&nbsp;};
<INPUT TYPE="TEXT" NAME="costF" VALUE="60.00" SIZE=5
onFocus="blur()"></TD></TR>
<!--Ends the form and the table -->
</TABLE></FORM></CENTER>
</BODY>
</HTML>

```

This is a simple example of how JavaScript can be used to enhance and increase the usefulness of web pages. Feel free to modify the code to work with whatever variables may be of interest to you.

The user is also reminded that the usefulness of JavaScript is not only limited to web pages viewed over the Internet. Small functional applications such as this calculator can be placed in an HTML document stored on a local machine and then viewed directly via an Internet browser. Thus JavaScript provides a means for rapid development of simple applications that can help you solve real world problems in your office space or perhaps even serve as powerful interactive client educational tools.

## PRODUCTS & REVIEWS

### "Virtual Rounds" EBM Exercise on the Web

From: "Ronald D. Smith" <rd-smith@uiuc.edu>

I invite you to peruse one of 17 "Virtual Rounds" exercises that we have developed to support teaching veterinary epidemiology in an Evidence-Based Medicine context. The Virtual Rounds Web site is located at...

<http://www.cvm.uiuc.edu/courses/vp350/rounds/roundshome.htm>

At the present time only one case, "Patches the Beagle", is available for viewing. Among the objectives of the Virtual Rounds exercise were:

- how to work up a case
- how to formulate clinically-relevant questions
- how to find clinically-relevant evidence from traditional sources, in bibliographic databases, and on the Internet
- how to critically-appraise the validity of that evidence
- how to apply epidemiologic findings to patient care

Along the way students also learned a lot about the medical condition that they were working up.

The case workup closely follows the Problem-Oriented Medical Record (POMR) approach. At the time students were working up the case, their progression was interrupted at key stages and they were asked to fill an "Educational Prescription". These stages were problem list, (2) differential diagnoses, (3) diagnostic plan, and (4) therapeutic plan. Links to the educational prescription and selected student responses ("Critically-Appraised Topics") can be found at the bottom of the respective stages in the case workup.

The idea for using "Educational Prescriptions" and "Critically-Appraised Topics" came from:

"Evidence-based Medicine. How to Practice and Teach EBM." DL Sackett, WS Richardson, W Rosenberg, RB Haynes. Churchill Livingstone, 1997. Additional credits for this particular case are given at the bottom of "Patches" signalment page.

I would welcome any comments on the lesson materials, the overall approach used, and how to improve the lessons for the next go-around.

RD Smith <rd-smith@uiuc.edu>

### Cattle Disease Diagnostic System (CaDDiS)

From: Sammy McKee <sammy@dis.strath.ac.uk>

Cattle Disease Diagnostic System (CaDDiS) is a computer program which attempts to aid the diagnosis of certain common tropical diseases in cattle. The system is based on a Bayesian belief network approach and evaluates the relative likelihood of a cow having any of the specified diseases given the observation of particular clinical signs.

The Interactive CaDDiS model can be found at:

<http://www.dis.strath.ac.uk/vie/CaDDiS>

CaDDiS Home Page containing further information can be found at:

[http://www.dis.strath.ac.uk/vie/CaDDiS/docs/Home\\_Page.html](http://www.dis.strath.ac.uk/vie/CaDDiS/docs/Home_Page.html)

This project is part of a Veterinary Informatics & Epidemiology (VIE) joint venture between the University of Strathclyde and the University of Glasgow. The VIE Home Page can be found at:

<http://www.dis.strath.ac.uk/vie>

Please forward any comments about the Web-Sites to: [crawford@dis.strath.ac.uk](mailto:crawford@dis.strath.ac.uk)

## INTERNET RESOURCES

### **Friskies Petcare Web Site**

From: Andrea Goldstein <andrag@raremedium.com>

December 1st, 1998 - Nestle's Friskies PetCare Company is pleased to announce a distinctively different kind of pet care site, FriskyPet, at <http://www.friskypet.com>. This online destination offers behavior focused pet care advice for families with cats or dogs.

Pet owners can get answers to many of their cat or dog behavior questions. They simply fill out their pet(s) profile and get free access to relevant information for their cat or dog. For more specific concerns, a professional vet will be on hand to answer questions on a monthly basis. FriskyPet.com also provides advice about training, feeding and nutrition.

Here is a more detailed description of what you will find at FriskyPet:

Behavior and Pet Care answers the question, "Why Does My Pet...?" and gives insight into everyday actions, while offering training basics to help you help your pet learn the "rules." This area also addresses possible troubling actions, advice for choosing the right pet for your family, grooming tips, and access to professional advice. This section also includes a database of behavior articles from Friskies PetCare Company.

Kids and Pets guides parents with issues that arise when bringing a pet into the family household and offers activities that can enhance your child's relationship with their pet.

Feeding and Nutrition offers diet advice for cats and dogs, and of course product information to the various nutritionally balanced recipes within the Friskies PetCare Company.

Info for Veterinarians invites professionals and veterinary students to share the knowledge base gathered by the Friskies PetCare Company's research programs, dedicated to understanding pet behavior and enhancing pet wellness. In addition, they can gain access to the findings of many of the world's foremost authorities in animal behavior and learn about important seminars and symposia.

Pet Care Resources provides links to other experts in fields related to pet care and research, as well as meeting some of our partners in pet care.

Events and Promotions showcases the latest schedules for events such as CFA Cat Shows and the ALPO Canine Frisbee Disc Championships, plus coupons and special offers.

## NEWS & COMMENTARY

### **1998 VINner Of The Year!**

From: PDP1@aol.com

What makes VIN so great? VIN's members! What makes VIN's members keep coming back? VIN's Information, Community, and CE! What makes VIN's information so gosh-darn useful? VIN's Librarian, Archivist, Web, and Database Wizard - Dr. Nicky Mastin!

In honor of her numerous contributions to VIN, Dr. Nicky Mastin (QuIndex) has been proclaimed VIN's first-ever VINner Of The

Year! Dr. Mastin is a founding member of VIN - and she has actively participated in the development and growth of VIN. She brought with her the Quarterly Index - her superb information resource. Since VIN's inception in 1991, Dr. Mastin has built from scratch the BEST VETERINARY REFERENCE RESOURCE available anywhere - in any format.

She is the creator & maintainer of VIN's Reference department and World Wide Web Site, but what exactly does she do? Take a

look! More importantly consider what VIN would be without easy access to:

Literature Abstracts -- (Nicky scans, downloads, formats, indexes, adds keywords, adds descriptions, formats and designs online presentation format)

Message Board posts (over 10,000 messages handled monthly) - (Nicky downloads, formats, indexes, adds keywords, uploads, and designs online presentation format)

Medline resources - (Nicky downloads, formats, adds keywords, adds descriptions, uploads)

Rounds - (Nicky downloads, formats, indexes, adds keywords, uploads)

Browseable Literature collections - (Nicky updates weekly)

Abstract & Website & Clinical Updates - (Nicky updates weekly)

Search/Help Tips -- (Nicky writes, uploads)

Info Centers - Intensive educational resource for the various veterinary medical disciplines (Nicky ensures they contain websites, message board archives, lit abstracts, FAQ sheets, Rounds, etc.)

Beyond that, Nicky conceived, initiated, and maintains (with the help of many) VIN on the World Wide Web. Plus, Nicky contributes to countless projects that touch each and every VINner, their practice, and their patients Every Day! And, most important of all, Nicky is considered by nearly everyone to be VIN's hardest working, most accommodating, and most valued member of the team.

It is with great pleasure that we name her VIN's first VINner of the Year!!!

### **DVM News Online HotSpot Results**

The results of the 1998 DVM Newsmagazine HotSpot! Awards are now out. Find out the winners in this first ever contest for the best veterinary clinic Web site at...

<http://www.dvmnewsmagazine.com>

Sincerely,  
Lynne Brakeman  
Senior Editor  
DVM Newsmagazine  
E-mail: [lbrakeman@advanstar.com](mailto:lbrakeman@advanstar.com)

### **Online Journal of Veterinary Research**

From: [csvguerr <csvguerr@mailbox.uq.edu.au>](mailto:csvguerr@mailbox.uq.edu.au)

A new area of publication for The Online Journal of Veterinary Research is Veterinary and human Molecular Genetics.

A new article "Molecular Characterization of Porcine Rotavirus Strains in Colombia" by Solarte et al is available at

<http://www.cpb.uokhsc.edu/ojvr>

Please note that we would welcome submissions dealing with veterinary (and human) molecular biology and genetics.

V. H. Guerrini DVM, MSc, PhD  
Editor-In-Chief  
OJVR

### **Zovex - A Swine Health Knowledge-Based System**

From: [Aalt Dijkhuizen <Aalt.Dijkhuizen@nutreco.nl>](mailto:Aalt.Dijkhuizen@nutreco.nl)

Ina Enting has worked in our group on her PhD-thesis, which she successfully defended recently. Her thesis is entitled: Zovex, a knowledge-based system to analyse factors associated with pig-health disorders. The chapters included in the thesis are:

1. General introduction
2. Identification of knowledge support in pig farming consultancy: analysis of visits by animal health specialists
3. A knowledge documentation methodology for KBS development: an example in animal health management
4. Zovex, a knowledge-integrated system to support herd-health management on pig farms
5. Validation of Zovex on farms with and without pleurisy problems
6. Additional value of Zovex to intended users
7. General discussion
8. Summary and main conclusions

Those who would like a copy of the thesis can get one as long as we have available. Please contact our secretary, Marian Jonker, to find out whether there are still copies available and if so, to ask for one. Her e-mail is [Marian.Jonker@secr.abe.wau.nl](mailto:Marian.Jonker@secr.abe.wau.nl)  
Phone: +31 317 484 065.  
Fax: +31 317 482 745.

**Newsletter - Veterinary Specialty Hospital** From: mark aurit <[mark@netfopets.com](mailto:mark@netfopets.com)>

The "News and Updates" newsletter of The Veterinary Specialty Hospital is available online in Adobe PDF format. The Veterinary Specialty Hospital, located in San Diego, California, is a teaching and clinical hospital staffed by Board Certified Veterinary Doctors and Consultants.

The two articles featured are:  
"Current Therapy for Nasal Aspergillosis"  
- John Hart, DVM, Diplomate ACVIM  
"Emergency Management of Head Trauma"  
- Todd Hughes, DVM

The newsletter can be found at:

<http://www.netfopets.com/vsh.html>

Mark Aurit  
President, NETFOPets!  
Los Angeles, California  
[mark@netfopets.com](mailto:mark@netfopets.com)  
<http://www.netfopets.com>

**Veterinary Practice Management Software Review**

From: Lynne Brakeman <[lbrakeman@advanstar.com](mailto:lbrakeman@advanstar.com)>

We are pleased to inform you that the February update of DVM News Online...

<http://www.dvmnewsmagazine.com>

includes an article entitled "Veterinary practice management software review," by Dr. Scott Sims, an equine practitioner in Novato, Calif. Dr. Sims evaluation, presented at the last AAEP meeting, covers features of 15 different software packages from 13 vendors. The results are highly applicable to small animal and food animal practices, as well as equine practices.

News Alert: Check your February issue of DVM Newsmagazine to read our cover story analyzing one year's worth of help wanted ads published in JAVMA. Visit our Breaking News section online for a quick read to get you started.

Other updated pages for February include

- Product Spotlights
- Classified ads

We invite your list members to stop by and let us know what they think.

Lynne Brakeman, Senior Editor  
DVM Newsmagazine  
E-mail: [lbrakeman@advanstar.com](mailto:lbrakeman@advanstar.com)

## MEETINGS & EDUCATIONAL OPPORTUNITIES

See the informatics section of NetVet for a more complete and current list of informatics-related activities at:

<http://netvet.wustl.edu/info.htm>

**Computers in Healthcare/Slice of Life/GRIPE**

June 22-26, 1999; Philadelphia

From: "Suzanne S. Stensaas" <[stensaas@mail.med.cornell.edu](mailto:stensaas@mail.med.cornell.edu)>

This is perhaps the only meeting in the U.S. that has as its focus the creation, use, and evaluation of computer technology in the health care curriculum. The focus is multimedia development and education and includes:

1. Seeing new technology for Medical/Health applications.
2. Demos of new multimedia teaching programs you've made/bought/sell.
3. Sharing innovations for the WWW, distance ed, and asynchronous learning.
4. Attending

demonstrations or hands-on "Pre-Conference" Pre-Workshops. 5. Acknowledge and encourage student participation with the award of a \$1000.00 cash prize for the most outstanding student project. 6. Demonstrate and receive feedback on the tools, programs and projects you have been working on before they are finished. 7. Discussion of strategies for getting new technologies incorporated into the curriculum. 8. Sharing software and ideas, problems and solutions and discussion new formats. 9. Sharing evaluation data. 10. Meeting others with similar interests with whom you can network throughout the year. 11. ...and having the best darn time in a great city.

The 1999 annual meeting will be hosted at Thomas Jefferson University, June 22-26, 1999 in Philadelphia, and we know it will bring together the synergy of the groups permitting even more interaction. In addition, The Group for Research in Pathology Education will meet just prior on June 21-23.

PLEASE REFLECT A MOMENT AND FORWARD this announcement to colleagues at your institution who might not know about the WORKSHOP.

Our preliminary web site is up with information about who we are

<http://www.slice.gsm.com/about.htm>

If you want to see the type of presentations we have had in the past please see the program for last year's meeting in Tampa.

<http://www.slice.gsm.com/1998>

or Univ. Chicago. 1997

<http://slice97.uchicago.edu/>

and Copenhagen, 1996

<http://linux.odont.ku.dk/mhse/>

Suzanne S. Stensaas, Ph.D.  
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email: [suzanne.stensaas@hsc.utah.edu](mailto:suzanne.stensaas@hsc.utah.edu)  
1999 Slice of Life and Computers in Healthcare  
Education Symposium Philadelphia, PA June  
22-26, 1999 <http://www.slice.gsm.com>

### **Toward an Electronic Patient Record '99 (TEPR '99)**

May 1-6, 1999; Orlando, Florida

Our six-day conference couples 130 educational sessions with an extensive exhibit hall of 160 EPR systems and components companies. TEPR '99 is an in-depth look at the current direction, implementation and future of EPRs.

For more information about either of these conferences look at our Web site at

<http://www.medrecinst.com>

or call (617) 964-3923.

### **1999 Talbot Symposium**

July 12-13, 1999; New Orleans

The 1999 Talbot Symposium schedule is available at...

<http://schoster.vetmed.wisc.edu/TalbotSchedule>

## **SUGGESTED READING**

### **Pet Terms Nomenclature**

The Online Journal of Veterinary Research published the article entitled Pet-terms:a standardized nomenclature for companion animal practice. Lund E.M, Klausner J.S., Ellis L.B. and Whitney . which is located at

<http://www.uq.edu.au/~csvguerr/18398IV.htm>

R. G Durnsford  
Online Journal of Veterinary Research

## Telemedicine Today

From: Michael Uwe Moebius  
<m.moebius@uni-koeln.de>

Telemedicine Today Magazine

<http://telemetoday.com/>

Telemedicine Today Magazine is an international publication for distance healthcare,

provides information on technology, telecommunications, teleradiology, home health, and video conferencing. Many features are provided including articles, conversations, discussion forum, links, product information.

Questions or Comments? Please respond to:

[webmaster@telemetoday.com](mailto:webmaster@telemetoday.com)

## CLOSING BITS

### Songs to Program By

Source unknown

#### YESTERDAY

Yesterday,  
All those backups seemed a waste of pay.  
Now my database has gone away.  
Oh I believe in yesterday.

Suddenly,  
There's not half the files there used to be,  
And there's a milestone  
hanging over me  
The system crashed so suddenly.

I pushed something wrong  
What it was I could not say.

Now all my data's gone  
and I long for yesterday-ay-ay-ay.

Yesterday,  
The need for back-ups seemed so far away. I  
knew my data was all here to stay,  
Now I believe in yesterday.

#### ELEANOR RIGBY

Eleanor Rigby  
Sits at the keyboard  
And waits for a line on the screen  
Lives in a dream  
Waits for a signal  
Finding some code  
That will make the machine do some more. What  
is it for?

All the lonely users, where do they all come from?  
All the lonely users, why does it take so long?

Guru MacKenzie  
Typing the lines of a program that no one will run;  
Isn't it fun?  
Look at him working,  
Munching some chips as he waits for the code to  
compile; It takes a while...

All the lonely users, where do they all come from?  
All the lonely users, why does it take so long?

Eleanor Rigby  
Crashes the system and loses 6 hours of work;  
Feels like a jerk.  
Guru MacKenzie  
Wiping the crumbs off the keys as he types in the  
code; Nothing will load.

All the lonely users, where do they all come from?  
All the lonely users, why does it take so long?