Appendix A: Selected international Internet access contacts

AARNeT

The Australian Academic and Research Network
GPO Box 1142
Canberra ACT 2601
AUSTRALIA
Tel: +61 6 249 3385
Fax: n.a.
E-mail: G.Huston@aarnet.edu.au
Area Served: Australia

ACONET

Austrian Scientific Data Network
Gusshausstrasse 25
1040 Wien
AUSTRIA
Tel: +431 43611 I or +43 222 58801 3605
Fax: n.a.
E-mail: helpdesk@aco.net
Area Served: Austria

ACTRIX

Actrix Information Exchange
P.O. Box 11-410
Wellington
NEW ZEALAND
Tel: +64 4 499-1708
Fax: +64 4 389-6356
E-mail: john@actrix.gen.nz
Area Served: New Zealand

ALTERNEX

IBASE
Rua Vicente de Souza 29
22251 Rio de Janiero
BRAZIL
Tel: +55 (21) 286 0348
Fax: +55 (21) 286 0541
E-mail: suporte@ax.apc.org
Area Served: Brazil

AMT Solutions Group Inc.

Island Net
P.O. Box 6201 Depot I
Victoria B.C. V8P 5L5
CANADA
Tel: +1 604 727-6030
Fax: +1 604 478-7343
E-mail: mark@amtsgi.bc.ca
Area Served: Victoria, British Columbia

ANTENNA

Antenna
Box 1513
6501 BM Nijmegen
The Netherlands
Tel: +31 (80) 235 372
Fax: +31 (80) 236 798
E-mail: support@antenna.nl
Area Served: The Netherlands

ARIADNE

Ariadne
NRC DEMOKRITOS
153 10 Attiki-Athens
Greece
Tel: +30 1 6513392 or +30 1 6536351
Fax: +30 16532910 or +30 1 6532175
E-mail: postmaster@isosun.ariadne-t.gr or
postmast@grathdem (Bitnet)
Area Served: Greece

ARnet

(Alberta Research Network)
Alberta Research Council
Box 8330, Station F
Edmonton, Alberta T6H 5X2
CANADA
Tel: +1 403 450 5188
Fax: +1 403 461 2651
E-mail: arnet@arc.ab.ca or penno@arc.ab.ca
Area Served: Alberta, Canada

ARNES

ARNES Network
Attn: Marko Bonac
Jamova 39, Ljubljana
SLOVENIA
Tel: +38 61 159199
Fax: +38 61 161 029
E-mail: helpdesk@ijs.si
Area Served: Slovenia

ARNET

Argentine Science Network
Reconquista 1088 ler. Piso Informatica
(1003) Capital Federal
Buenos Aires, Argentina
Tel: +541 313 8082
Fax: +541 814 4824
E-mail: pete@atina.ar or os@atina.ar
Area Served: Argentina

BALTBONE

Ants Work
Akadeemie tee 21
EE 0108 TALLINN
ESTONIA
Tel: +007 0142 525622
Fax:+0070142527901
E-mail: ants@ioc.ee
Area Served: Baltic countries: Estonia, Lithuania,Latvia.

BCnet

BCnet Headquarters
515 West Hastings Street

Vancouver, British Columbia
Canada V6B 5K3
Tel: +1 604 2915209
Fax:+16042915022
E-mail: Mike@bc.net
Area Served: British Columbia, Canada

BELNET

Belgian Research Network
Wetenschapsstraat 8
1040 Brussels
Belgiun
Tel: +32 2 238 3470
Fax: n.a.
E-mail: helpdesk@belnet.be
Area Served: Belgium

BGnet

BG Network
Neofit Bozveli 6
Varna - 9000
BULGARIA
Tel: +359 52 234540
Fax: +359 52 234540
E-mail: postmaster@Bulgaria.EU.net
Area Served: Bulgaria

CA*net

CA*net Information Centre
4 Bancroft Ave., Rm 116
Toronto, Ontario
CANADA, M5S 1 A 1
Tel: +1 416 978 5058
Fax: +1 416 978 6620
E-mail: info@CAnet.ca or eugene@vm.utcs.utoronto.ca
Area Served: Canada

CARNet

Croatian Academic and Research Network
J. Marohnica bb
41000 Zagreb
Croatia
Tel: +38 41 510 033
Fax: n.a.
E-mail: helpdesk@carnet.hr
Area Served: Croatia CCAN (Computer Communication Access for NGOs)

CERN

CN Division
12 11 Geneva 23
Switzerland
Tel: +41 22 767 3356
Fax: t41227677155
E-mail: postmaster@cern.ch
Area Served: International

CHASQUE

Chasque network
Casilla Correo 1539
Montevideo 11000
Uruguay

Tel: +598 (2) 496-192
Fax: +598 (2) 419-222
E-mail: apoyo@chasque.apc.org
Area Served: Uruguay & Paraguay

CAM

Communications Accessibles Montreal (CAM.ORG)
Address: n.a.
Canada
Tel: +1 514-923-2102
Fax: n.a.
E-mail: info@CAM.ORG
Area Served: Canada, QC: Montreal, Laval, South-Shore, West-Island

CONNECT

The IBM PC User Group
PO Box 360
Harrow HA1 4LQ
ENGLAND
Tel: +44 0 81 863 1191
Fax: +44 0 81 863 6095
E-mail: info@ibmpcug.co.uk
Area served: London area.

COLNODO

Colnodoa Network
Carrera 23 No. 39-82
Santafe de Bogota
Columbia
Tel: 57-2697181, 2444692, 2697202
Fax: n.a.
E-mail: julian@colnodo.igc.apc.org
Area Served: Columbia

COMLINK

ComLink
Emil-Meyer-Str. 20
30165 Hannover
Germany
Tel: +49 (511) 350-1573
Fax: +49 (511) 350-1574
E-mail: support@oln.comlink.apc.org
Area Served: Germany, Austria, Switzerland, Zagreb, Belgrade

CONNECT

Connect.com.au pty ltd
29 Fitgerald Crescent
Caulfield Victoria 3161
AUSTRALIA
Tel: +61 3 528 2239
Fax: +61 3 5285887
E-mail: connect@connect.com.au
Area Served: Australia: Melbourne, Sydney

DataNet

Telecom Finland
P.O. Box 228
Rautatienkatu 10
33101 TAMPERE
Finland
Tel: +358 3 1 243 2242

Fax: +358 31 243 2211
E-mail: seppo.noppari@tele.fi
Area Served: Finland

DENet

The Danish Network for Research and Education UNI-C
The Danish Computing Centre for Research and Education
Building 305, DTH
2800 Lyngby
Denmark
Tel: +45 45 93 83 55
Fax: t45 45 93 02 20
E-mail: Jan.P.Sorensen@uni-c.dk
Area Served: Denmark

DFN

DFN-Verein e. V.
Pariser Strasse 44
1000 Berlin 15
GERMANY
Tel: t49 30 88 42 99 22
Fax: t49 30 88 42 99 70
E-mail: dfn-verein@dfn.dbp.de or wilhelm@dfn.dbp.de
Area Served: Germany

DPB

Research and Technology Centre,
Section T 34 P. 0. Box 10 00 03
6100 DARMSTADT
Germany
Tel: t49 6151 83 5210
Fax:+496151   834639
E-mail: n.a.
Area Served: Germany

EARN

European Academic Research Network
BP 167
9 1403 Orsay CEDEX
FRANCE
Tel: t33 1 69 82 39 73
Fax: t 33 1 69 28 52 73
E-mail: grange%frors12.bitnet@mitvma.mit.edu
Area Served: Europe and International

EARN-France

European Academic Research Network - FRANCE
950 rue de Saint Priest
34184 Montpellier Cedex 4
FRANCE
Tel: t33 67 14 14 14
Fax: +33 67 52 57 63
E-mail: ^BRUCH%FRMOP11.BITNET@pucc.Princeton.EDU
Area Served: France

ECONNECT

Econnect
Sdruzeni Pro Snadne Spojeni
Naovcinach 2 170 00 Prague 7,
Czech Republic
Tel: +42(02) 66710366
Fax: n.a.

E-mail: sysop@ecn.gn.apc.org
Area Served: Czech Republic

ECUANEX

Ecuanex Network
12 de Octubre, Of. 504
Casilla 17-12-566 Quito
ECUADOR
Tel: +593 (2) 528-716
Fax: +593 (2) SOS-073
E-mail: intercom@ecuanex.apc.org
Area Served: Ecuador

ELCI

Elci Network
Box 72461
Nairobi
Kenya
Tel: +254 2 562 015
Fax:+2542562175
E-mail: sysop@elci.gn.apc.org
Area Served: Kenya

EMAIL CENTRE

E-mail Centre
108. V. Luna Road, Sikatuna Village
Quezon City
Philippines
Tel: t632 921 9976
Fax: n.a.
E-mail: sysop@phil.gn.apc.org
Area Served: Philippines

ENDA

Enda
BP 3370
Dakar
Senegal
Tel: t221 21 6027 or +221 22 4229
Fax: +221 21 2695
E-mail: sysop@endadak.gn.apc.org
Area Served: Senegal

EUNET

European Network
Kruislaan 409
1098 SJ Amsterdam
THE NETHERLANDS
Tel: t31 20 592 5109
Fax: t31 20 592 5155
E-mail: info@eu.net
Area Served: Europe and International (Algeria, Austria, Belgium,
Bulgaria, Czech Republic, Denmark, Egypt, Finland, France,
Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg,
Morocco, Netherlands, Norway, Portugal, Romania, Slovakia,
Slovenia, Russia and other parts of former Soviet Union, Spain,
Switzerland, Tunisia, United Kingdom)

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Lockton House Clarendon Road
Cambridge, CB2 2BH

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Tel: +44 223 302 992
Fax: t44 223 303 005
E-mail: dante@dante.org.uk
Area Served: Europe (US, Canada, Rep. of Korea via provision of intercontinental lines)

Fnet

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11 rue Camot
94270 Le Krémlin-Bicêtre
FRANCE
Tel: +33 1 45 21 02 04
Fax:+33 146589420
E-mail: contact@fnet.fr
Area Served: France

FUNE

Finnish University and Research Network
P.O. Box 40
02101 Espoo
FINLAND
Tel:+35804572711
Fax: t358 0 457 2302
E-mail: sadeniemi@funet.fi
Area Served: Finland

GARR

Gruppo Armonizzazione delle Reti per la Ricerca
c/o CNR -Istituto Cnuce Via S.Maria, 36
56126 Pisa
ITALY
Tel: t39 50 593360
Fax: +39 50 589354
E-mail: INFO@NIS.GARR.IT C=IT; ADMD=GARR;
PRMD=NIS; S=INFO
Area Served: Italy

GEONET

GeoNet Mailbox Systems
Address: n.a.
Germany
Tel: t49 6673 1888 1
Fax: n.a.
E-mail: GmbH@geod.geonet.de postmaster@geo5.geomail.org
Area Served: Germany

GlasNet

Ulitsa Sadovaya-Chemograizskaya
dom 4, Komnata 16, Third Floor
107078 Moscow
RUSSIA
Tel: +7 (095) 207-0704
Fax: t7 (095) 207-0889
E-mail: support@glas.apc.org
Area Served: Russia and other Commonwealth of Independent State's Countries.
Services: Dial-up Host, UUCP

GLUK

GlasNet-Ukraine, Ltd
14b Metrologicheskaya str.

Kiev, 252143
Ukraine
Tel: t7 (044) 266 9481
Fax: t7 (044) 266 9475
E-mail: support@gluk.apc.org
Area Served: Ukraine

GREENNET

Green Network
23 Bevenden Street
London N1 6BH
UNITED KINGDOM
Tel: t44 (71) 608 3040
Fax: +44 (71) 253 0801
E-mail: support@gn.apc.org
Area Served: International, Africa

HEANET

Higher Education Authority
Fitzwilliam Square
Dublin
IRELAND
Management Committee
Tel: t353 1 612748
Fax: t353 1 610492
E-mail: Mnorris@hea.ie
Area Served: Ireland

HISTRIA

ABM-BBS
Ziherlova 43 61
Ljubljana
Slovenia
Tel: + 38 61211-553
Fax: + 38 61 152-107
E-mail: support@histria.apc.org
Area Served: Slovenia

HONGKONGSUPERNET

Hong Kong Supemet
HKUST Campus
Clear Water Bay, Kowloon
HONG KONG
Tel: (+852)358-7924
Fax: (+852)358-7925
E-mail info@hk.super.net
Area Served: Hong Kong and the ASEAN region

HUNGARNET

Computer and Automation Institute
1132 Budapest
18-22 Victor Hugo
HUNGARY
Tel: t36 1 149 7352
Fax: n.a.
E-mail: postmaster@ella.hu
Area Served: Hungary

ILAN

Israeli Academic Network Information Center
Computer Center
Tel Aviv University

ISRAEL
Tel: +972 3 6408309
Fax: n.a
E-mail: hank@vm.tau.ac.il
Area Served: Israel

INCA

Internetworking Cape
PO Box 6844
Roggebaai 80 12
SOUTH AFRICA
Tel: +27 21 4192690
Fax: n.a.
E-mail: info@inca.za
Area Served: South Africa

INDIALINK BOMBAY

Praveen Rao, Indialink Coord. Bombay
c/o Maniben Kara Institute Nagindas Chambers,
167 P.D'Mello Rd
Bombay - 400 038
INDIA
Tel: 91-22-262-2388 or 261-2185
Fax: n.a.
E-mail: mki@inbb.gn.apc.org
Area Served: India

INDIALINK DELHI

Indialink
10 Institutional area, Lodiroad,
New Delhi
INDIA
Tel: 91-l l-463-5096 or 461.1745
Fax: 91-11-462-5015
E-mail: leo@unv.ernet.in
Area Served: India

INTERNEX

Intemex Online Inc.
Suite 1801 l Yonge St
Toronto, ON
CANADA M5E lW7
TEL: +1416 363 8676
Fax: n.a.
E-mail: vid@IO.ORGor scrappy@IO.ORG
Area Served: Toronto Canada

IRELAND ON-LINE

Ireland On-Line
West Wing, Udaras Complex
Furbo Galway
Ireland
Tel: +353 91 92727
Fax: +353 91 92726
E-mail: postmaster@iol.ie
Area Served: Ireland

ISnet

University of Iceland
Dunhaga 5
107 Reykjavik
ICELAND

Tel: +354 1 694747
Fax: n.a.
E-mail: marius@rhi.hi.is
Area Served: Iceland

ITALYNET

Italy Network
Via G.Taddei 3
Pisa
Italy
Tel: 39-5-57-6343
Fax: n.a.
E-mail: cesare@gn.apc.org
Area Served: Italy

ITESM

Depto. de Telecomunicaciones y Redes
ITESM Campus Monterrey E. Garza Sada #2501
Monterrey, N.L., C.P. 64849
MEXICO
Tel: +52 83 582 000 ext. 4130
Fax: +52 83 588 931
E-mail: hugo@mtecv1.mty.itesm.mx
Area Served: Mexico

IUNET

IuNet
Via Opera Pia,11A
16145 Genova
ITALY
Tel: +39 10 353 2747
Fax:+39103532948
E-mail: ab@dist.unige.it
Area Served: Italy

JANET

Joint Academic Network
Rutherford Appleton Laboratory
Oxon OX1 1OQX
UNITED KINGDOM
Tel: +44 235 5517
E-mail: JANET-LIAISON-DESK@jnt.ac.uk
Area Served: United Kingdom

JARING

MIMOS
7th Flr, Exchange Square Off Jalan Semantan
50490 Kuala Lumpur
MALAYSIA
Tel: +60-3-254-9601
Fax: +60-3-253-1898
E-mail: noc@jaring.my
Area Served: Malaysia

JIPS

Joint Network Team
Chilton Didcot
Oxon OX1 1 OQX
UNITED KINGDOM
Tel: +44 235 44 5163
Fax: n.a

E-mail: r.a.day@jnt.ac.uk
Area Served: United Kingdom

LANETA

Laneta
Tlalpan 1025, col. portales
Mexico, df.
Mexico
Tel: (525) 2774791,
Fax: (525) 277-4791
E-mail: soporte@laneta.igc.apc.org
Area Served: Mexico

Latvian Internet Centre

University of Latvia, Institute of Computer Science
Rainis blvd. 29
Riga LV-1459
LATVIA
Tel: +371 2 224730
Fax: +3718 820153
E-mail: postmaster@mii.lu.lv
Area Served: Latvia

LEGA PER L'AMBIENTE

Lega per 1' ambiente
via Salaria 280
00 194 Roma
ITALY
Tel: +39/6-844-2277
Fax: n/a
E-mail: legambiente@gn.apc.org
Area Served: Italy

LVNET-TELEPORT

LvNet-Teleport
204 Brivibas str
Riga, LV- 1039
Latvia
Tel: +371 2551133
Fax: +371 2553261
E-mail: vit@lynx.riga.lv
Area Served: Latvia

MANGO

Mango
PO Box 7069
Harare
Zimbabwe
Tel: +263 4 303 211 EXT 1492
Fax: n.a.
E-mail: sysop@mango.apc.org
Area Served: Zimbabwe

MBnet

University of Manitoba
603 Engineering Building
Winnipeg, Manitoba
CANADA, R3T 2N2
Tel: +1 204 474 8230
Fax: +1 204 275 5420
E-mail: miller@ccm.UManitoba.ca
Area Served: Manitoba. Canada

MUKLA

Makerere University
Kampala
Uganda
Tel: +256-41-532-479
Fax:
E-mail: sysop@mukla.gn.apc.org
Area Served: Uganda

NB*net

University of New Brunswick
Director, Computing Services
Fredericton, New Brunswick
CANADA, E3B 5A3
Tel: +1 506 453 4573
Fax: +1 506 453 3590
E-mail: DGM@unb.ca
Area Served: New Brunswick, Canada

Nicarao

Iglesia Carmen
1 cuadra al lago Apartado 3516
Managua
NICARAGUA
Tel: +505 (2) 621-312
Fax: +505 (2) 621-244
E-mail: support@ni.apc.org
Area Served: Central America, Panama.

NLnet

Newfoundland and Labrador Network
Memorial University of Newfoundland
St. John's, Newfoundland
CANADA, A1C 5S7
Tel: +1 709 737 8329
Fax: +1 709 737 3514
E-mail: admin@nlnet.nf.ca
Area Served: Newfoundland and Labrador, Canada

NORDNET

Nordic Network
Huvudskaersvaegen 13, nb
121 54 Johanneshov
SWEDEN
Tel: +46-8-600 0331
Fax: +46-8-600 0443
E-mail: support@pns.apc.org
Area Served: Sweden

NORDUNET

Nordunet
c/o SICS P.O. Box 1263
164 28 Kista
SWEDEN
Tel: +46 8 752 1563
Fax: +46 8 7517230
E-mail: NORDUNET@sics.se
Area Served: Norway, Denmark, Finland, Iceland, Sweden.

NSTN

Nova Scotia Technology Network
900 Windmill Road, Suite 107

Dartmouth, Nova Scotia
CANADA, B3B 1P7
Tel: +1902 468 6786
Fax: +1902 468 3679
E-mail: martinea@hawk.nstn.ns.ca
Area Served: Nova Scotia, Canada

ONet

ONet Computing Services University of Toronto
4 Bancroft Avenue, Rm 116
Toronto, Ontario,
CANADA, M5S 1A1
Tel: +I 416 978 5058
Fax: +I 416 978 6620
E-mail: eugene@vm.utcs.utoronto.ca
Area Served: Ontario,Canada

ORSTOM

Institut Français de Recherche Scientifique pour le Développement
en Coopdration Service Informatique
2 13, rue La Fayette
75480 PARIS Cedex
FRANCE
Tel: +33 48 03 76 09 or +33 67 6 175 10
Fax: n.a.
E-mail renaud@PARIS.ORSTOM.FR
Area Served: France

OSLONETT

Oslonett Aksess
Gaustadalleen 21
037 I Oslo
NORWAY
Tel: +47 22 46 10 99
Fax: t47 22 46 45 28
E-mail: oslonett@oslonett.no
Area Served: Norway

OTC

OTC Electronic Trading
4 I Mc Laren Street
North Sydney NSW 2060
Australia
Tel: +61 2 954 3055
Fax: +61 2 957 1406
E-mail: n.a.
Area Served: Australia

PACTOK

Packtok
PO Box 284
Broadway 4006
Queensland, Australia
Tel: +61(7)257- 1111
Fax: +61(7)257-1087
E-mail: pactok@peg.apc.org
Area Served: Pacific Islands

PADIS

Pan African Development Information System
Box 3001
Addis Ababa

Ethiopia
Tel: +251(1)511 167
Fax: +251(1)514 416
E-mail: sysop@padis.gn.apc.org
Area Served: Ethiopia

PEGASUS

Pegasus Networks
PO Box 284
Broadway 4006 Queensland
AUSTRALIA
Tel: t61 (7) 257-1111
Fax: t61 (7) 257-1087
E-mail: support@peg.apc.org
Area Served: Australia, Pacific Islands, Southeast Asia

PIPEX

Pipex
Unipalm Ltd.
Address: n.a.
United Kingdom
Tel: t44 223 424616
Fax: +44 223 426868
E-mail: pipex@unipalm.co.uk
Area served: United Kingdom

Piroska Giese

KFKI-Research Institute for Particle and Nuclear Physics
1121 Budapest
Konkoly Thege ut 29-33
HUNGARY
Tel: (36-l) 169-9499
Fax: (36-l) 169-6567
E-mail: Piroska.Giese@rmki.kfki.hu
Area Served: Hungary, High Energy Physics Community

Prince Edward Island Network

University of Prince Edward Island
Computer Services
550 University Avenue
Charlottetown, P.E.I.
CANADA, C1A 4P3
Tel: + I 902 566 0450
Fax: t 1 902 566 0958
E-mail: hancock@upei.ca
Area Served: Prince Edward Island, Canada

RARE

RARE Secretariat
Singel 466-468
1017 AW Amsterdam
THE NETHERLANDS
Tel: +31 20639 1131
Fax: t3 1 20 639 3289
E-mail: raresec@rare.nl
Area Served: Europe

RCCN Vasco Freitas

CCES Universidade do Minho
Largo do Paco
47 19 Braga Codex
PORTUGAL

Tel: +35153 612257
Fax: n.a.
E-mail: vf@ce.fccn.pt
Area Served: Portugal

RED400

CICB
Campus de Beaulieu
35042 Rennes
FRANCE
Tel: +33 1 39 63 54 58
E-mail: contact-red@cicb.fr
Area Served: France

REDID

APTD0 2972
Asesor Cientifico Union Latina
Santo Domingo
REPUBLIC DOMINICANA
Tel: +1 809 689 4973 or +1 809 535 6614
Fax: t 1 809 535 6646
E-mail: pimienta]daniel@redid.org.do
Area Served: Dominican Republic

RedIRIS

Secretaria RedIRIS
Fundesco Alcala 61
28014 Madrid
SPAIN
Tel: t34 1435 1214
Fax: t34 1 578 1773
E-mail: secretaria@rediris.es
Area Served: Spain

Relcom

Demos
6 Ovchinnikovskaya nab.
113035 Moscow
RUSSIA
Tel: +7 095 231 2129
Fax:+70952335016
E-mail: postmaster@hq.demos.su
Area Served: Russia

RESTENA

Restena
6 Rue Coudenhove Kalergi
1359
LUXEMBOURG
Tel: +352 424409
Fax: n.a.
E-mail: admin@restena.lu
Area Served: Luxembourg

RISQ

Réseau Interordinateurs Scientifique Québecois
3744, Jean-Brillant, Suite 500
Montreal, Quebec
CANADA, H3T 1P1
Tel: +1514 340 5700
Fax: + 1 514 340 5777

E-mail: turcotte@crim.ca
Area Served: Canada

SANET
Slovak Academic NETwork

Vypoctove stredisko SAV Dubravska cesta 9
842 35 Bratislava
Slovakia
Tel: +42 (7) 374422
Fax: n.a.
E-mail: bobovsky@savba.cs
Area Served: Slovakia

SANGONET

Sangonet
13th floor Longsbank Building 187 Bree Street
Johannesberg 2000
South Africa
Tel: +27 (11) 838-6944
Fax: +27 (11) 838-6310
E-mail: support@wn.apc.org
Area Served: South Africa

SUNET

Sunet
UMDAC
901 87 Umea
SWEDEN
Tel: +46 90 16 56 45
Fax: +46 90 16 67 62
E-mail: postmaster@sunic.sunet.se
Area Served: Sweden

SURFnet

Surfnet
P.O. Box 19035
3501 DA Utrecht
THE NETHERLANDS
Tel: t31 3 0310290
Fax: n.a.
E-mail: info@surfnet.nl
Area served: The Netherlands

SWITCH

SWITCH Head Office
Limmatquai 138
8001 Zurich
SWITZERLAND
Tel: +411 256 5454
Fax: +41 1261 8133
E-mail: postmaster@switch.ch
Area Served: Switzerland

TANet

Computer Center, Ministry of Education
12th Fl, No. 106
Sec. 2, Hoping E. Road
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Tel: +886 2 7377010
Fax: t886 2 7377043
E-mail: nisc@twnmoe10.edu.tw
Area Served: Taiwan

TELEMEMO

Telecom Australia
1/181 Victoria Parade
Collingwood VICTORIA 3066
Australia
Tel: t61 3 4121539/4121535/4121078
Fax: t61 3 4121548/4121545/6637941
E-mail: n.a.
4rea Served: Australia

TICSA

The Internetworking Company of Southern Africa
PO Box 15525
Vlaeberg 8018
SOUTH AFRICA
Tel: +27 21 4192768
Fax: n.a.
E-mail: info@ticsa.com
Area Served: Southern Africa

TIPnet

Technical Sales and Support
MegaCom AB Kjell Simenstad
121 80 Johanneshov Stockholm
SWEDEN
Tel: t46 8 780 5616
Fax: +46 8 686 02 I3
Area Served: Sweden

TUVAKA

Ege Universitesi
Bilgisayar Arastirma ve Uygulama Merkezi
Bornova, Izmir 35100
TURKEY
Tel: +90 51887228
Fax: n.a.
E-mail: Esra@ege.edu.tr
Area Served: Turkey

UKnet

University of Kent
Canterbury
Kent CT2 7NF
UNITED KINGDOM
Tel: +44 227 475497 or +44 227 475415
Fax: +44 227 7628 11
E-mail Postmaster@uknet.ac.uk
Area Served: United Kingdom

UNINETT

Uninett
SINTEF DELAB
7034 Trondheim
NORWAY
Tel: t47 7 592980
Fax: n.a.
E-mail: Petter.Kongshaug@delab.sintef.no
Area Served: Norway

UNINET-ZA Project

Foundation for Research Development
P.O. Box 2600

Pretoria 0001
SOUTH AFRICA
Tel: t27 12 841 3542
Fax: +27 12 804 2679
E-mail: uninet@frd.ac.za
Area Served: **South** Africa

UUNET

UUnet Canada Inc.
1 Yonge Street
Suite 1801 Toronto, Ontario
M5E 1 W7 CANADA
Tel: +1 416 368 6621
Fax: +1 416 369 0515
E-mail: info@uunet.ca
Area Served: Canada

UUNET India Limited

270N Road No. 10 Jubilee Hills
Hyderabad, A.P. 500 034
India
Tel: +91842 238007
Fax: +9 I 842 247787
E-mail: info@uunet.in
Area Served: India

UnBol

BolNet
Facultad de Ingenieria Electronica
Univ. Mayor de San Andres La Paz
BOLIVA
Tel: n.a.
Fax: n.a.
E-mail: clifford@unbol.bo
Area Served: Bolivia

VITA

Volunteers In Technical Assistance
1600 Wilson Boulevard 5th Floor
Arlington, VA 22209
USA
Tel: t 1 703 276 1800
Fax: +1703 243 1865
E-mail: vita@gmuvax.gmu.edu
Area Served: International

WAMANI

CCI
Talcahuano 325-3F
1013 Buenos Aires
Argentina
Tel: t54 (1) 382-6842
Fax: n.a.
E-mail: apoyo@wamani.apc.org
Area Served: Argentina

WEB

Web Nirv Centre
401 Richmond Street West Suite 104
Toronto, Ontario M5V 3A8
CANADA
Tel: +1 (416) 596 0212

Fax: **+1 (416)** 974 9189
E-mail: support@web.apc.org
Area Served: International.

WIDE

KEIO University
5322 Endo
Fujisawa, 252
JAPAN
Tel: **+81** 466 47 5111 ext. 3330
Fax: n.a.
E-mail: jun@wide.ad.jp
Area Served: Japan

YUNAC

Borka Jerman-Blazic, Secretary General
Jamova 39
61000 Ljubljana

SLOVENIA
Tel: **+38** 61 159 199
Fax: **+38** 61 161 029
E-mail: jerman-blazic@ijs.ac.mail.yu
Area Served: Slovenia, Croatia, Bosnia-Herzegovina

ZANGO

Zambia Association for Research and Development
Address: n.a.
Lusaka
Zambia
Tel: **+260** 1 252 507
Fax: n.a.
E-mail: sysop@unza.gn.apc.org
Area Served: Zambia

Appendix B: Network speed overview

Acronym	Term	Kilobits	Megabits	Gigabits	Relative Speed	Comments
2400 baud	modem	1.92	.002	.000002	1.0	To send one second of NTSC video raster image at this speed takes about 25 minutes. Lower speed synchronous modem generally used as local access to X.25 / electronic mail and dial-up PC interconnectivity.
9600 baud	modem	7.68	.008	.000008	4.0	
14,400 baud v.42	modem	11.52	.012	.000012	6.0	For high-speed interconnect for analogue trunk lines where 56/64 Kbs digital service is not available or cost effective.
19,200 baud v.42	modem	15.36	.015	.000015	8.0	This is currently the highest speed available over dial-up lines.
56 Kb/s or 64 Kb/s	X.25	56	.056	.000056	29.2	US / European primary level of digital service.
Ethernet	Network	10,000	10	0.01	5,200	Common network.
Fast Ethernet	Network	100,000	100	0.1	52,000	Provides significant speed increase without significant new investment in hardware
Frame Relay	Frame Relay	56	.056	.000056	29.2	Provides fractional T-1 rates up to 1.544 Mbs in the US.
FDD1	Fiber Distributed Data Interface	100,000	100	.1	52,000	Emerging as the new enterprise standard
T-1 or DS1 / E1	Internet backbone	~ 1,540	~ 1.54	~ .00154	~ 802	Primary level of US PABX, incorporating digital signalling for 24 x 56 Kb/s channels. Can also be used as a 1.54 Mb/s data service. European E1 gives 2.048 Mb/s.
T-3 or DS3	Next generation internet backbone	~ 45,000	~ 45	~ .045	234,000	45 Mb/s is third stage of US transmission standards.
E3	Leased line	34,000	34	.034		34 Mb/s is third stage of European transmission standards
ISDN 2	Integrated Services Digital Nehvork	2 x 64	2 x .064	2 x .0064	2,600 to 23,400	Becoming available in the US. More common in the France and other European countries. 2 x 64 Kb/s data channels and 1 x 16 Kb/s signalling channel used for dial-up ISDN service over the public switched telephone network.
Primary ISDN	Integrated Services Digital Network	24 x 56 / 30 x 64	24 x .056 / 30 x .064	24 x .0056 I 30 x .0064		US has 24 Kb/s data channels with 1 x 16 Kb/s signalling channel. Europe has 30 x 64 Kb/s channels, plus 1 signalling channel.
ATM (low)	Asynchronous Transfer Mode (low)	~ 145,000	~ 145	~ .145	75,500	Before ATM, speeds in excess of 100 MB/s required point to point links; a cell relay technology which can be used in ISDN environment. Speeds are flexible, generally starting from 45 Mb/s.
ATM (high)	Asynchronous Transfer Mode	~ 2,400,000	~ 2,400	~ 2.4	1,249,525	**Supports** real-time videoconferencing.
B - ISDN	Broadband Integrated Services Digital Network	~10,000,000	~ 10,000	~ 10.0	5,200,000	Less common in the US.
SONET -OC-1	Synchronous Optical Network OC- 1	51,640	51.64	.052	26,900	Speeds are rated by optical character level of throughput; OC12 = 622 mb/s and could be used for 12 multiplexed OC1 circuits.
SONET- OC-12	Synchronous Optical Network OC- 12	622,000	622	.622	324,000	
SONET (Max OC level)	Synchronous Optical Network (maximum level)	10,000,000	10,000	10	5,200,000	High speed used in demonstration applications.

Appendix C: Selected US government information sites

Department	Category	Addresses
Department of Agriculture	General	gopher cyfer.esusda.gov
Budget of the US Government	FY 1995	telnet ebb.stat-usa; password: test
		gopher gopher.esa.doc.gov
	Previous Years and other Info.	gopher sunsite.unc.edu
Department of Commerce	Census	gopher bigcat.missouri.edu
	Commerce Business Daily	gopher cscns.com
	Economics	gopher gopher.lib.umich.edu
		telnet ebb.stat-usa; password: test
	Patent Office Reform Panel Final Report	gopher wiretap.spies.com
Congress	Committee Assignments	gopher gopher.lib.umich.edu
	Directories	gopher marvel.loc.gov
	Firsts	gopher info.umd.edu
	Information	gopher gopher.lib.umich.edu
		gopher infolumd.edu
	Legislation from 1973 to present	telnet locis.loc.gov
	Senate Bibliographies (99th - current)	gopher dewey.lib.ncsu.edu
Copyright	General	telnet locis.loc.gov
Environmental Protection Agency	Chemical fact sheet	gopher ecosys.drdr.virginia.edu
	On-line Library System	telnet epaibm.rtpnc.epa.gov
Fair Credit Shopping	General	gopher wiretap.spies.com
Federal Information Exchange	Federal research programs, grants, procurement opportunities	gopher fedix.fie.com
Federal Register	General	gopher gopher.netsys.com
Federal Regulations	General	gopher gopher.netsys.com
Food and Drug Administration	Information	telnet fdabbs.fda.gov; login:bbs
	Food labelling	gopher zeus.esusda.gov
Freedom of Information Act	General	gopher wiretap.spies.com
General Accounting Office	Reports	gopher wiretap.spies.com
		ftp ftp.cu.nih.gov; password: guest
Geological Survey	Information	gopher info.er.usgs.gov
	Survey Weekly Seismicity Report	gopher somalia.earth.nwu.edu
	Earth Science Data Directory	gopher scilibx.ucsc.edu
	Earthquake Information	gopher gopher.stolaf.edu
US Government Gopher Servers	General	gopher stis.nsf.gov
Library of Congress	Information System	telnet locis.loc.gov
	Marvel (congressional, Census, White House, crime data, etc.)	gopher marvel.loc.gov
NASA	National Space Science Data Center	telnet nssdca.gsfc.nasa.gov; username: nodls
	Spacelink (news releases, shuttle and mission reports)	telnet spacelink.msfc.nasa.gov; password: newuser

National Archives	General	gopher marvel.loc.gov
National Institute of Standards & Technology	General	gopher gopher-server.nist.gov
National Institutes of Health	Information	gopher gopher.nih.gov
	AIDS Information	gopher odie.niaid.nig.gov
	National Cancer Institute	gopher helix.nig.gov
	National Library of Medicine (Genetic Sequence Data)	gopher odie.niaid.nig.gov
	Center for Disease Control's Morbidity and Mortality Weekly Report	gopher odie.niaid.nig.gov
	National Institute of Allergy and Infectious Disease	gopher odie.niaid.nig.gov
	National Library of Medicine	gopher el-gopher.med.utah.edu
National Oceanic & Atmospheric Administration	Earth System Data Directory	telnet esdim1.nodc.noaa.gov; login: noaadir
	National Environmental Data Referral Service	gopher scilibx.ucsc.edu
	National Weather Service Forecasts	gopher ashpool.micro.umn.edu
National Science Foundation	General	gopher stis.nsf.gov
Navy	Navy News Service	gopher marvel.loc.gov
	Navy Policy Book	gopher marvel.loc.gov
Office of Personnel Management	Federal Jobs	gopher dartcms1.dartmouth.edu
Politics	1992 Campaign Election Results	gopher tamuts.tamu.edu
	Political Platforms	gopher wire.spies.com
	Speeches from the 1992 Presidential Campaign	gopher bigcat.missouri.edu
United Nations	Report on Crime and Criminal Justice in 123 countries	gopher uacsc2.albany.edu
	Information	gopher nywork1.undp.org
	Conference on Environment & Development Documents	gopher info.umd.edu
	Resolutions	gopher wiretap.spies.com
Department of State	Travel Advisories	gopher gopher.stolaf.edu
Supreme Court	Decisions	gopher info.umd.edu
White House	Information	gopher tamuts.tamu.edu
		gopher sunsite.unc.edu
	Documents	gopher gopher.lib.umich.edu
		gopher gopher.netsys.com
		gopher wiretap.spies.com
	Economic Plan	gopher wiretap.spies.com
	Health Security Act of 1993	gopher ace.esusda.gov
	National Information Infrastructure	gopher ace.esusda.gov
	National Performance Review	gopher sunsite.unc.edu
	North American Free Trade Agreement	gopher wiretap.spies.com
	North Atlantic Treaty Organization Document	gopher sunsite.unc.edu
	Treaties an International Covenants	gopher wiretap.spies.com
World Health Organization	General	gopher gopher.who.ch
Zip Code Database	General	gopher gopher.uoregon.edu

Appendix D: US national network infrastructure contacts

Member	Title	Affiliation
Morton Bahr	President	Communications Workers of America (AFL-CIO)
Toni Carbo Bearman	Dean	School of Library and Information Science, University of Pittsburgh
Bonnie L. Bracey	Teacher	Ashlawn Elementary School, Arlington, Virginia
John F. Cooke	President	The Disney Channel
Esther Dyson	President	EDventure Holdings, Inc.
Craig I. Fields	Chairman	Microelectronics and Computer Technology Corp.
Lynn Forestor	President	FirstMark Holdings Inc.
Carol Fukunaga	Senator	Hawaii State Assembly
Haynes G. Griffin	President	Vanguard Cellular Systems Inc.
George H. Hellmeier	President	Bell Communications Research, Inc.
Susan Herman	General Manager	Department of Telecommunications, County of Los Angeles
James R. Houghton	Chairman	Corning Inc.
Stanley Hubbard	Chairman	Hubbard Broadcasting
Robert L. Johnson	President	Black Entertainment Television
Robert E. Kahn	President	Corporation for National Research Initiatives
Deborah Kaplan	Vice President	World Institute on Disability
Mitch Kapor	Chairman	Electronic Frontier Foundation Inc.
Delano E. Lewis	President	National Public Radio
Alex J. Mandl	Executive Vice President	American Telephone & Telegraph
Edward R. McCracken	President	Silicon Graphics Inc.
Nathan P. Myhrvold	Senior Vice President	Microsoft Corp.
Mac Norton Jr.	Attorney	Wright, Lindsey & Jennings
Vance K. Opperman	President	West Publishing Co.
Jane Smith Patterson	Adviser	Office of the Governor, North Carolina
Bert C. Roberts Jr.	Chairman	MCI Communications Corp.
John Sculley	Chairman	Spectrum Information Technologies, Inc.
John H. Smith	Commissioner	Oregon Public Utility Commission

Appendix E: Advertising on the Internet — frequently asked questions and answers

Version 1 .O — 6 March, 1994

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How to contact the author

Michael Strangelove can be contacted by e-mail to Mstrange@Fonorola.Net or by postal mail to SIE Inc, 208 Somerset Street East, Suite A, Ottawa, Ontario, K1N 6V2, Canada. Telephone: 613-565-0982, fax: 613-569-4433.

Introduction

Advertisers spend billions of dollars every year to communicate their message to potential consumers. Now businesses are discovering that they can advertise to the Internet community at a fraction of the cost of traditional methods. With tens of millions of electronic mail users out there in cyberspace today, Internet advertising is an intriguing opportunity not to be overlooked. When 1998 rolls around and there are one hundred million consumers on the Internet, we may see many ad agencies and advertising-supported magazines go under as businesses learn to communicate directly to consumers in cyberspace.

How can a consultant, corporation, or an entrepreneur effectively use electronic mail to communicate to the Internet user? The following document is intended to identify and answer frequently asked questions about Internet-facilitated marketing. This FAQ is based on the book, 'How to Advertise on the Internet: An Introduction to Internet-facilitated Marketing' (April 1994). If there are questions you have about Internet advertising that are not addressed here, or if you have comments about how to improve this document, please feel free to contact me at Mstrange@Fonorola.Net.

Potential advertisers take note — do your homework before blasting onto the Internet. This virtual community has some very strong feelings about inappropriate activity, and the penalties for incorrect advertising methods could be international hate mail to you, your boss, and your stock holders.

Nota bene : It is the intention of the author to promote the responsible business use of the Internet. Businesses will be making extensive use of the Internet for marketing and advertising, regardless of how Internet members feel about the non-commercial origins of the Internet. The Internet is not destined to be a TechnoUtopia, but simply a microcosm of global society, with all its warts and flowers. This FAQ is intended as a proactive measure to ensure that the commercial

Internet user has adequate information about Internet culture so as to contribute to the ongoing development of Electric Gaia.

Questions answered in this FAQ

Is advertising allowed on the Internet? Is advertising on the Internet New? Is the Internet a Mass Market? Is unsolicited advertising permitted? Can I send an e-ad to every Internet user?

Internet advertising tips

Find out what is acceptable; post only to appropriate forums; keep it short; avoid sensationalism; create your own forum; interact with the Internet community.

Is advertising allowed on the Internet?

It is surprising how many people still see the Internet as a non-commercial, academic, and technical environment. Over fifty percent of the Internet is populated by commercial users (that equals five to ten million commercial users). The commercial Internet is the fastest growing part of cyberspace, which is doubling in size every year. There are more business users of the Internet than the total number of all the users of all commercial networks combined.

Over three years ago the US National Science Foundation lifted its restrictions against commercial use of the Internet's American backbone. Now an Internet address on business cards is the latest craze. As the Internet is not owned by any one company or nation, the only real restrictions placed upon users are by the consensus of the virtual community itself. The trick to effective Internet advertising is taking the time to learn what is, and what is not, acceptable within any one of the more than 7.000 online conferences.

The one major exception to this is any Internet users who have academic accounts provided by their university or research institute. It is almost certain that if you have an academic Internet account, you are forbidden to engage in commercial activity over your university's Internet connection. This may also hold true for many FreeNets -if you are uncertain about local authorised use policy, ask your Internet provider or system postmaster.

It should be noted that Usenet is not less commercial than the rest of the Internet. Gone forever are the days when the Internet was a private club for the techno-elite.

Is advertising on the Internet new?

Even among many long-time Internet users, there is a perception that Internet advertising is a new phenomenon. It is not. In the mid-eighties, when the Internet was largely an academic, scientific and technical community, commercial activity was still allowed if it was in support of research efforts. This meant that right from

the first days of the Internet, there were software developers, publishers, consultants, and technicians hawking their wares to the academic community. Advertising has been taking place on the Internet since its beginning. The problem facing the Internet community is that the bigger the community gets (and it is going to be mindbogglingly big), the more it will attract the attention of advertising agencies.

Is the Internet a mass market?

For quite some time to come, the Internet will never represent a mass market such as TV where content is controlled and packaged to a limited number of predefined and demographically homogenous audiences consisting of millions of viewers. There are no mass markets on the Internet — only micro communities with distinct histories, rules and concerns. These communities are gathered into thousands of discussion forums ranging from hundreds to thousands of participants, but there are no groups of 'millions.' The challenge of the Internet-facilitated business is to find a way to reach these virtual communities on their terms, respecting their local customs. The Internet is big, very big, but it is not a mass market that can be easily reached through mass mailing.

Is unsolicited advertising permitted?

Unsolicited advertising does indeed take place every day on the Net, and there even exists on company that sells access to over one million Internet addresses for direct e-mail advertising. Unsolicited advertising is a grey area of Internet culture, and therefore requires very careful planning and execution to avoid the wrath of an extremely vocal community.

Unsolicited advertising has been taking place for quite some time, but must be done with extreme caution. There is no one to tell you not to send unsolicited commercial e-mail on the Internet, but if you send out 10,000 annoying advertisements, be prepared to receive 10,000 complaints. Also, companies that disregard Internet users' wishes are likely to find that the Internet community has a long memory (as any 'oral' culture does) and is quite capable of engaging in anti-advertising campaigns and boycotts.

In this new interactive, digital, wired-to-the-bellybutton world, bulk unsolicited advertising is unnecessary, bad netiquette, and simply lazy -especially when there are so many creative alternatives. The author has no wish to support the rise of 'door-to-door' salespeople in cyberspace and therefore is intentionally censoring contact information from this FAQ on firms that sell Internet e-mail addresses and consult in bulk unsolicited e-mail advertising.

Can I send an e-ad to every Internet user?

As Editor of *The Internet Business Journal,* Aneurin Bosley is frequently asked if it is possible to send an electronic mail advertisement (e-ad) to every user on the Internet. I always find it somewhat disturbing that there are companies out there who would want to do this. Fortunately for the Internet, it is not possible to send

an e-ad to every person on the Internet. Unfortunately for the Internet, it is probably only a matter of time before some sick mind figures out a method of simultaneously annoying every Internet user. For now at least, there is no way to post an e-mail message to every Internet user, nor, in this writer's opinion, should such a tool be developed.

Internet advertising tips

Find out what is acceptable

Within some Internet forums, any commercial activity, no matter how subtle, is unacceptable and will be met with a strong negative response (usually called 'flaming'). Take time to 'listen in' to the forum to which you intend to post. Notice what other people post and what the group reaction is to commercial messages. If a press release or product announcement is met with intense flaming, then do not risk alienating this group of Internet users with your commercial message.

Post only to appropriate forums

Begin your market research by identifying the appropriate online conferences (also called forums, lists, or newsgroups). If you are selling purebred dogs, do not post your message to the cat lover's list. Some forums have FAQ (Frequently Asked Questions). Read these files to determine the nature of the forum and acceptable use policies.

Keep it short

Avoid posting long e-mail messages. Your product or service announcements would never exceed two screens in length (about 50 lines long). Many individuals on the Internet receive a considerable amount of e-mail, so your message must be short and to the point if it is going to be read at all. You can note in your posting that further details are available upon request.

Avoid sensationalism

The Internet community is content-oriented, whereas most advertisers deal in style, metaphor, image and hype. Traditional advertising copy will not go over well at all on the Net. The Internet community appreciates quality, filtered information, so find a way to add value to your message. Couch your message within a commentary on industry trends, create an electronic newsletter that provides a range of related information, enter into dialogue with the forum about surrounding issues. Remember that nothing is more obvious in low ASCII than empty hype.

Create your 0 wn forum

It is possible to create a Usenet newsgroup for discussion of your products (Usenet is received by most Internet users and contains over six thousand newsgroups). Many companies have already done so, such as ZEOS, which has a newsgroup

called biz.zeos.general. This is a form of passive Internet-facilitated marketing. Passive advertising allows a business to create a forum on the Internet and invite the rest of the Internet to join in. By creating your own forum, moderating the submissions (filtering out irrelevant postings), and providing high quality information, not only about your products but about your particular commercial sector, you will establish a growing readership in much the same way that newsstand magazines function.

Interact with the Internet community

For the immediate future, the costs of Internet-facilitated advertising will not be associated with expensive visual productions (at least until the domination of Mosaic and similar tools), but with the labour required to dialogue with the desired market areas found within over seven thousand discussion forums. This labour factor for truly responsible, responsive, and effective Internet advertising will become a critical consideration as the staggering Internet growth rate pushes these numbers to tens of thousands of forums and hundreds of millions of users over the next decade.

The business world is going to have to learn a new language when it communicates to the Internet community -the language of content-based, interactive, community-oriented dialogue. Unidirectional pontificating coming from the lofty heights of corporate sales and marketing offices will only alienate the typical Internet user. To be fully accepted by the majority of Internet users, a business will need to participate in the virtual communities they wish to reach. This means that business must be willing and prepared to enter into dialogue in an appropriate manner on the appropriate forums. Unlike any other medium familiar to advertisers, the Internet is fully bi-directional — be prepared to answer for your product or service if it is less than 100% satisfactory. The Internet user will not hesitate to tell you otherwise, as well as tell the rest of the Internet community!

A word of warning

Most advertisers will fail at their initial attempt at Internet-facilitated advertising. This is not at all surprising in light of the fact that most advertising in any medium is woefully ineffective, mind-bogglingly boring and uncreative at best — deceptive and annoying at worst.

Why will advertisers fail when they succumb to the seduction of the virgin fields of the Internet? Traditional advertising will fail to achieve results on the Internet because this virtual community is oriented towards content. In contrast, advertisers usually focus on image and style — broad archetypes delivered to mass audiences. But the language of the Internet, for the majority of its population, and for some time to come, is low ASCII (Aa-Zz, l-9 text plus a few miscellaneous characters). More than being a mainly text-based environment, the Internet is first and foremost an oral culture, where keyboard mediates the spoken word to a complex matrix of subcultures among users numbering in the tens of millions. Sensitivity to Internet culture will define success for any business entering into this global matrix. Remember that today's Internet arose out of a non-commercial environment. Be

forewarned — the Internet is not television, not the post office and certainly not yours to do with as you please.

About the author

Michael Strangelove (Mstrange@Fonorola.Net) is founder and CEO of Strangelove Internet Enterprises, Inc., publishers of 'The Internet Business Journal,' 'Internet Advertising Review' and 'Electropolis: Government Online.' Mr Strangelove writes a regular column about the Internet in 'Online Access' and has co-authored, with Diane Kovacs, 'The Directory of Electronic Journals, Newsletters, and Academic Discussion lists' (Association of Research Libraries, 1993, third edition). Michael is also author of the new book, 'How to advertise on the Internet: An Introduction to Internet-facilitated Marketing.' Sample copies of the *Internet Business Journal* are available upon request.