



Swedish University of Agricultural Sciences
Department of Soil and Environment

Dear Sirs,

I am Professor of Environmental Physics at SLU (The Swedish University of Agricultural Sciences). My research is directed towards developing mathematical models that help us describe and understand the environmental fate and effects of pesticides. I have been involved with the development of the FOOTPRINT PPDB via the EU FP6 funded FOOTPRINT project. However, the funding for this highly valuable tool expires in early 2009 and I believe it would be a serious waste of previous effort should financial support for its continuation not be identified.

We use the PPDB in our research activities and it is also used in its MS ACCESS format to support the use of the MACRO model in teaching, and in non-commercial activities supporting various public authorities in Sweden (e.g. Swedish Environmental Protection Agency). MACRO is a physically-based one-dimensional numerical model of water flow and reactive solute transport in field soils, which is used for pesticide risk assessment (i.e. in the FOCUS surface water and groundwater scenarios).

The further development of the PPDB as a research tool with enhanced search mechanisms and customised reporting would be extremely valuable for us. I am also willing to join the 'expert network' and offer advice and support as required. Therefore I am pleased to support the application for funding.

sincerely,

Nick Jarvis
Professor of Environmental Physics
Department of Soil & Environment,
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Sweden

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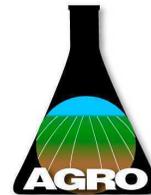
email: nicholas.jarvis@mark.slu.se



DIVISION OF AGROCHEMICALS

OF THE
AMERICAN CHEMICAL SOCIETY

Chemistry for and from Agriculture



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January 28, 2009

Dr K A Lewis

Agriculture & Environment Research Unit
Science and Technology Research Institute
University of Hertfordshire, College lane
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Dear Dr. Lewis,

I am currently the chair of the AGRO division of the American Chemical Society. Our division has committed to supporting international cooperation in an effort to promote knowledge benefiting society through advancements in agricultural public health, and environmental science and technologies. Freely available databases with excellent quality control such as the IUPAC Footprint Pesticide Properties Database are critical for safe and appropriate use of pesticides in all countries. These data are required for use with risk assessment tools. Your proposed improvements to the database will likely make the database much more user-friendly and useful to those without consistent access to the internet. Once these improvements are made, a short tutorial may be helpful to those learning to use the system. Many AGRO members are already very active in IUPAC and especially with the Division of Chemistry and the Environment and its subcommittees. We can certainly add a link to the database on our new website <http://www.agrodiv.org/> and we can include information on this data with requests for expert reviewers in our bi-annual newsletter. Our division would be open to further discussions on how our two organizations could work more closely together to preserve and promote the Footprint Pesticide Properties Database.

Thank you,

Dr. Kevin Armbrust, Chair
Division of Agrochemicals
American Chemical Society



Swedish University of
Agricultural Sciences

2008-12-05

Dear Sirs,

I am working as a researcher at the Swedish University of Agricultural Sciences. My research is directed towards an increased understanding of fate and effects of pesticides in the environment, including monitoring activities. With this letter I would like express my appreciation of the FOOTPRINT PPDB and to inform those concerned about how valuable I find this easy-to-use database.

I especially appreciate the efforts made to supply also sources and quality of information, something that has been lacking previously, as well as the very broad overview of all different aspects of each molecule. The database definitely saves a lot of time for all researchers and students around the world and sets a standard for us. It will likely also contribute to reduce possible confusion between different research groups if e.g. using different kind of in-data in our models.

I sincerely hope that the FOOTPRINT PPDB will be continued as an open-source, high quality, database since it has become a very important research tool in my daily work. However, I am not only speaking for my self. As head of the Competence Centre for Chemical Pesticide at our university, with a number of researchers, students and technical staff working with environmental aspects of pesticides, I can assure that we have all become more and more dependent of this valuable resource.

Best regards,
Jenny Kreuger
Director

Competence Centre for Chemical Pesticides (CKB)
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Webb: <http://ckb.slu.se>



January 26, 2009

Dear sirs:

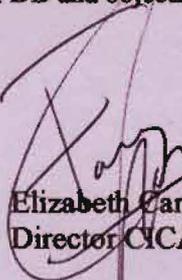
Modern synthetic pesticides revolutionized pest and disease control and laid the foundation for an era of unprecedented prosperity and growth following World War II. Yet today pesticides are the centre of a bitter controversy despite being the most tested and regulated chemicals. Pesticide misuse can injure man and the environment. On the other hand few technologies could claim to have averted over a billion premature deaths or helped produce sufficient food for all.

The FOOTPRINT PPDB project provides objective information on over 840 pesticides. Web-based distribution provides global outreach yet keeps the cost of dissemination low. Public feedback with regular updates incorporates new information and extends coverage to key older pesticides and metabolites with information that was often unavailable to the public. Good language coverage ensured local decision makers and land managers had the relevant information to make informed decisions about pesticide use and risks.

Sadly we are on the verge of losing not only the up to date utility of the FOOTPRINT database but also the many associated information resources such as the International Food Contaminant & Residue Information System (INFOCRIS) and a myriad of decision support tools like the Pesticide Impact Rating Index (PIRI) program that rely on good physicochemical data as well as indicative toxicological endpoints. Similar information may be available in government and commercial repositories. However, for developing countries this is mostly inaccessible or unaffordable. For the foreseeable future, pesticides will continue to play a critical role in controlling vectors of disease, reducing soil erosion, cutting production losses caused by pests and diseases as well as relieving pressure on forests and other vulnerable wilderness areas.

In an interdependent world, food and environmental safety require integrated solutions at a regional and global level. FOOTPRINT is meeting that challenge and is pivotal in ensuring an orderly transition of knowledge to a new generation of scientists who are more computer literate but more dependent on reliable information bequeathed by a unique generation of scientists. The marginal cost of maintaining and disseminating FOOTPRINT PPDB is minimum compared to the cost of premature closure and denying a future generation an indispensable tool. The EU and other responsible authorities should play a more pro-active role in strengthening the global food chain and trade by continuing support for FOOTPRINT PPDB and objective sources of public information.

With my kind regards,


Elizabeth Carazo, PhD
Director CICA-UCR

Dr K A Lewis
Agriculture & Environment Research Unit
Science and Technology Research Institute
University of Hertfordshire, College lane
Hatfield, Herts, AL10 9AB
UK

19th January 2009

Dear Dr Lewis,

Sub: Footprint Pesticide Properties Database

Our research team in CSIRO is engaged in ecological risk assessment of contaminants such as pesticides in environment. For this purpose, we need high quality environmental fate and ecotoxicological data of pesticides as input parameters in our risk assessment models. Currently there is a serious lack of local data on pesticides in Australia and we rely heavily on overseas data for risk assessment purposes. We find Footprint Pesticides properties database (FOOTPRINT PPDB) as the most suitable and useful database for this purpose.

Historically, we have been using United States (USDA -ARS) database on pesticides properties developed by Don Wauchope and his team. However, in recent years since the European Union's FOOTPRINT PPDB with extensive and detailed records on pesticides became available to us, this has become the primary source of our environmental fate and ecotoxicological data for risk assessment.

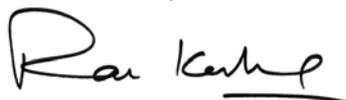
We regularly access the FOOTPRINT PPDB via web and have used the data from this source regularly in our work for more a year now. Most significant use of this data has been in a recently concluded Australian Government project to improve water quality in Tasmanian catchments.

We find the database easy to access, detailed, well laid out, robust and free of errors. We hope that this database would continue to remain available to us via web and it high quality would continue to be maintained by your team in future.

In summary, the FOOTPRINT PPDB is proving highly useful in our risk assessment work on pesticides and we hope to continue accessing this high quality dataset on pesticides properties .

On behalf on my research team, I take this opportunity to thank you for hard work and leadership in this field and wish you all the best in your future developmental work on this database.

Yours sincerely



Dr Rai Kookana
Research Group Leader
Centre for Environmental Contaminants Research

R. Don Wauchope
Environmental Chemist
3801 Cascade Lake Road
Pisgah Forest, NC 28768
Don_Wauchope@citcom.net

January 20, 1009

SUBJECT: The Significance of the 'FOOTPRINT' Project
TO: Whom it may concern

I am a recently retired Research Chemist formerly with the Agricultural Research Service of the US Department of Agriculture. I have been associated with research on using the chemical and physical properties of pesticide active ingredients (AI's) and their formulations to predict their environmental fate and behavior.

To develop *and maintain* a consistent and complete set of fundamental properties of pesticide AI's has been a priority need in the pesticide science community for many years. There are a multitude of general-chemical databases in existence. These are generally woefully incomplete for pesticides. Efforts by pesticide-related scientific societies such as in weed science (1) and entomology (2) have been more useful. Some University and "Extension" efforts (e.g., 3) and my own agency (4,5), and individual efforts (e.g., 6), and a very useful on-line compendium of nomenclature (7) and an "environmental fate database" by the US EPA (8) have added to the available data. The most complete and somewhat maintained system (9), by the BCPC and edited by Clive Tomlin for many years, has been a standard source for all researchers in pesticide science.

All of these systems have serious shortcomings. Until the advent of the FOOTPRINT database, the most complete has been (9); however it is quite expensive. In addition, (9) and all but one (8) of the others rely on *voluntary* input by industry or individuals. The quality and timeliness of these data is naturally variable, and peer review of data in these systems is virtually missing. A valiant effort by FAO and IAEA to develop a "wiki"-type web-based system (10) has simply not been able to find enough voluntary input.

An alternative to voluntary input by industry and individuals is the use of data submitted to and peer reviewed by regulatory agencies, such as the USEPA database (8). These data, generated by requirement of the agencies

for registration of the AI's, are data measured under defined Good Laboratory Practice protocols and are expected to be state-of-the-art quality with defined quality end points. For this reason the EPA database shows immense promise and offers a very broad range of useful information for each pesticide, but it is currently very incomplete.

The "regulatory data" approach has also been taken by the FOOTPRINT project, using the massive and detailed data generated on AI's for EU dossiers. The result—I am amazed at the progress that has been made--has become the best database available in the world. It has solidly addressed quality, consistency AND completeness concerns. I have donated my own collection of data to FOOTPRINT (mostly for QC purposes) and am working with them on developing a better way to present acid/base ionization data; an area in which no current database is either consistent or complete.

In addition the FOOTPRINT project has made the data publicly available on an excellent internet web site. This is an exciting step that has made this project accessible to all. In my opinion the FOOTPRINT project has come close to fulfilling the ideal of providing the pesticide science community with a complete, transparent, and quality-controlled pesticide property database.

I am well aware there are proprietary data concerns and data misuse concerns on the part of the pesticide industry. Misuse can of course occur whether there is a good data set out there or not! I believe the industry will eventually recognize (many individuals in the industry already do) that if data is going to be made public (and most of it is already out there in one form or another), then a single source of good data is the only good choice.

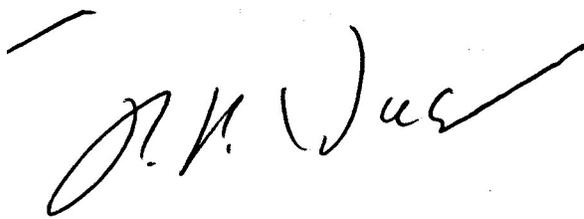
I hope to continue to donate my time to the improvement of the FOOTPRINT database. And I strongly urge anyone who will listen: continued funding (coupled with organization of an expert review committee) is needed to make this project an ongoing, fully maintained and always up-to-date database.

The developers have produced an excellent and useful product that can profoundly facilitate progress in the science of pesticide safety and environmental fate. We must find a way to continue to develop and maintain this tool. The provision of a sophisticated search engine and the

means to work numerically with the retrieved data is an exciting step forward and one that I look forward to being associated with.

Thank you for your time and attention!

Sincerely Yours,



REFERENCES/FOOTNOTES

- (1) Weed Science Society of America. *Herbicide Handbook* (many editions).
- (2) Entomological Society of America at one time had a handbook of insecticides.
- (3) Oregon State University Pesticide Properties Database:
<http://npic.orst.edu/ppdmove.htm>
- (4) USDA-Agricultural Research Service Pesticide Properties Database, not maintained and thus out of date but available on the web:
<http://www.ars.usda.gov/services/docs.htm?docid=14199>
- (5) USDA-NRCS pesticide properties database used for soil/water conservation purposes: somewhat maintained but not easily accessible.
- (6) Hornsby, A. G., Wauchope, R. D. and Herner, A. E. *Pesticide Properties in the Environment*. New York: Springer-Verlag. 227 pp. 1995.
- (7) The “Woods Compendium” of pesticide nomenclature:
<http://www.alanwood.net/pesticides/>

(8) US Environmental Protection Agency EFED (Environmental Fate and Effects Division) Pesticide Properties database:

<http://cfpub.epa.gov/pfate/home.cfm>

(9) British Crop Protection Council: The Pesticide Manual, ed. By Clive Tomlin—many editions

(10) FAO/IAEA INFOCRIS system: <http://www-infocris.iaea.org/en/default.htm>



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Ref. jkj

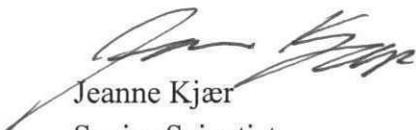
22 January 2009

Dear Sirs,

I am employed at Geological Survey of Denmark and Greenland as Senior Scientist. My work involves research on the contamination risk that pesticide poses on the aquatic environment and I make frequent use of the FOOTPRINT PPDB. In particular I use it for assessing which metabolites should be included in our research/monitoring programme. For this purpose I find the FOOTPRINT PPDB, unique providing easy access to a large amount of data and information, which is not easily assessable elsewhere.

I fully support the application by the University of Hertfordshire for funding to develop enhanced research tools utilising the database. Enhanced search mechanisms and customised reporting procedures would be valuable in our work, and I would be happy to join the expert network group.

Yours sincerely


Jeanne Kjær
Senior Scientist

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*GEUS is a research and
advisory institution in
the Danish Ministry of
the Environment*

John Tzilivakis

From: "Jack E Barbash" <jbarbash@usgs.gov>
To: "Kathy Lewis" <K.A.Lewis@herts.ac.uk>
Cc: <i.dubus@brgm.fr>
Sent: 27 October 2008 15:55
Subject: Maintaining the FOOTPRINT Pesticide Database

Dear Kathy,

Thank you for your note--it's nice to finally "meet" one of the people behind this excellent resource. (Sorry I hadn't seen your message before I just sent my response off to you and Igor on this, though.) Now I know what "aeru" in your email address stands for!

Please consider me to be one of your biggest fans on this database. While I can certainly understand how much work is involved in maintaining such a resource, I also want to encourage you (and your partner) to keep at it for as long as you can. This is largely a thankless, unheralded job, but as far as I can tell, yours might very well be the only comprehensive database of pesticide property values that provides so much detail on the pH and temperature of measurement for so many parameters, that is updated on such a frequent basis, and that is available for free online.

So, please keep up the good work on this effort, Kathy. Even though we live on different continents, I, for one, certainly appreciate it Big Time!

Jack
=====

Dr. Jack Barbash, Research Chemist
Pesticide National Synthesis Team
National Water-Quality Assessment (NAWQA)
U.S. Geological Survey
Washington Water Science Center
934 Broadway, Suite 300
Tacoma, WA 98402
PH 253-552-1610; FAX 253-552-1581
Email: jbarbash@usgs.gov
Web: <http://water.usgs.gov/nawqa/pnsp/>

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Any opinions expressed are strictly my own, rather than official positions of the U.S. Geological Survey.

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"We are life that wants to live in the midst of other life that wants to live." - Albert Einstein  
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"Kathy Lewis" <K.A.Lewis@herts.ac.uk>

To <jbarbash@usgs.gov>
cc

10/27/2008 02:26 AM

Subject Re: Kudos on, and a suggestion regarding the FOOTPRINT Pesticide Database

Dear Jack

Thanks for the kind words. Its always nice to get feedback especially when its positive. There are actually just two of us who work on the database part time but it is a labour of love as like you we struggled to find the pesticide data we needed. The database is actually under constant revision and is updated at least weekly and more often than not daily.

We will consider taking your suggestion regarding Log P on board and have previously been asked to provide both the untransformed parameter i.e. P and the log version. Next time we do a formatting upgrade we will see how best to handle this.

Thanks again for your support.

Kathy Lewis

 Dr K A Lewis
 Agriculture & Environment Research Unit
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 University of Hertfordshire, College lane
 Hatfield, Herts, AL10 9AB
 Tel +44 1707 284582

<http://sitem.herts.ac.uk/aeru/>
<http://sitem.herts.ac.uk/aeru/footprint/index.htm>

----- Original Message -----

From: Jack E Barbash

To: aeru@herts.ac.uk

Cc: i.dubus@brgm.fr

Sent: Saturday, October 25, 2008 12:53 AM

Subject: Kudos on, and a suggestion regarding the FOOTPRINT Pesticide Database

Greetings.

Many, many thanks for, and complements on the database of pesticide property values that you (and, I assume, an entire army of co-workers) have created for FOOTPRINT!

As someone who has been working with other databases of pesticide property values--both online and in hard copy--for many years, and with mixed degrees of satisfaction with them, I greatly appreciate the systematic and highly organized nature of the FOOTPRINT Pesticide Database, as well as its remarkably broad coverage of so many pesticide compounds. Should it be decided that this database will continue to be updated on a regular, and reasonably frequent basis (e.g., at least once per year), I'd be inclined to use this as my principal, if not my only source of data for these parameters in the future.

In response to one of the items that flash by at the top of the PPDB screen (at <http://sitem.herts.ac.uk/aeru/footprint/en/>) as one is working with it (which, I might add, is an exceedingly intriguing and effective way of engaging with visitors to your website), I would like to suggest a change to the label for one of the rows in one of the tables in which these parameter values are provided.

In the "Environmental Fate" table on this page, the fourth "Property" is listed as "Octanol-water partition coefficient (Log P) at pH 7, 20°C." While I greatly appreciate seeing the pH and temperature given (very helpful indeed and, alas, all-too rare among such compilations), your apparent mixing of two different forms of this parameter in the same label is likely to confuse more than one of your visitors to this site. And while, of course, there are several solutions to this problem, the simplest would seem to be to merely give the untransformed value (P), rather than its log. I'm anticipating that you might object to this approach, since this parameter has been so commonly given in logarithmic form--at least since the well-known 1979 compilation by Hansch and Leo was published. However, presenting this parameter as its untransformed value in this table would be consistent with the approach you're already using for Koc in the same table. Presenting these

data as P (rather than log P) might thus lead to less confusion for people who (like me) are working with both parameters.

Either way, though, thank you again for all your work on this excellent source of so many data on the physical, chemical and biological properties of so many pesticide compounds--a highly valuable and convenient tool that I hope you'll be able to update on a regular basis for a long time to come.

With gratitude,

Jack

=====

Dr. Jack Barbash, Research Chemist
 Pesticide National Synthesis Team
 National Water-Quality Assessment (NAWQA)
 U.S. Geological Survey
 Washington Water Science Center
 934 Broadway, Suite 300
 Tacoma, WA 98402
 PH 253-552-1610; FAX 253-552-1581
 Email: jbarbash@usgs.gov
 Web: <http://water.usgs.gov/nawqa/pnsp/>

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Any opinions expressed are strictly my own, rather than official positions of the U.S. Geological Survey.

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"We are life that wants to live in the midst of other life that wants to live." - Albert Einstein

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----- Original Message -----

From: [Will McMinn](#)

To: aeru@herts.ac.uk

Sent: Thursday, October 02, 2008 3:27 PM

Subject: Footprint Database

Dear Footprint Team

I am actually sending this as myself rather than as one of SEPA's senior scientists and I'd like to say the FOOTPRINT database is a pleasure to use and concisely presents the information that is so vital in assessing potential impacts. I really appreciate your efforts and I would like to offer a quote as my official self:

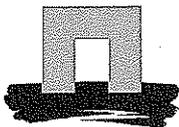
This project will save us hundreds of hours of searching in the coming years allowing more time for analysis and assessment of the environment resulting in significant efficiency savings."

I just managed to assess all of the pesticides etc that SEPA regularly analyses, for aquatic photolysis, in 3 hours rather than the 30 hours it was looking like it was going to take and I hope the funders like the quote

Kind regards and my thanks

Will McMinn

William McMinn, Senior Scientist Chemical Risk Assessment, Environmental Chemistry Unit, Scottish Environment Protection Agency,



RIKILT
INSTITUTE OF FOOD SAFETY
WAGENINGEN UR

Dr K A Lewis
Agriculture & Environment Research Unit
Science and Technology Research Institute
University of Hertfordshire,
College lane
Hatfield, Herts, AL10 9AB

Dear Dr Lewis

This letter is addressed to you following your communication on the possible expiry of the Footprint database on agrochemicals to Dr J Unsworth, the leader of the IUPAC Agrochemicals Information project, which links to the Footprint database through its website at <http://agrochemicals.iupac.org>.

As member of the IUPAC division on chemistry and the environment, in particular the section for crop protection chemistry, I have led and am leading projects on the consequences of altered pesticide use on transgenic crops. For these and other projects, the Footprint database can provide an accessible, authoritative, and useful resource of data on the toxicological, ecotoxicological, and physicochemical properties of pesticides. These summary data can, for example, help identifying potential environmental or food safety issues related to pesticide usage, which are at the focus of my research and that of my colleagues.

Also the envisaged extensions, including enhanced search capabilities, an expert network, and peer review of data to be entered, will in my view be beneficial for carrying out researches in this area.

I would therefore welcome the continuation of Footprint and am hopeful that you will be able to secure resources for this purpose.

Yours sincerely,

Dr.ir. Gijs A. Kleter

DATE
30 January 2009

SUBJECT
**Footprint database
(pr.nr. 972.296.01)**

OUR REFERENCE
09/RIK0060

HANDLED BY
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RIKILT is accredited based on ISO 17025. These tests are described in detail on www.rva.nl (no. L014).

Wageningen University and DLO have combined forces in Wageningen UR (Wageningen University and Research Centre).

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University of Hertfordshire
College Lane
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United Kingdom

29th January 2009

Dear Sir/Madam,

We would like to fully support the application by the University of Hertfordshire for further funding to develop enhanced research tools utilizing the FOOTPRINT Pesticide Properties Database (PPDB).

FOOTPRINT PPDB is user friendly designed database, which provides large amount of data and information, which is not easily assessable elsewhere. Hence, FOOTPRINT PPDB is being already frequently used by our researchers and students.

Access to this resource has meant more productive research as less time is spent searching for data. We also find that it is more reliable and consistent than other sources.

We look forward to working with the research team in the future.

assist. prof. dr. Metka Suhadolc



Dean of Biotechnical Faculty
Prof. dr. Frañci Štampar



**WROCLAW UNIVERSITY
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Wrocław, 23 January 2009

University of Hertfordshire
Hatfield
Hertfordshire. AL10 9AB
United Kingdom

Dear Sirs,

Wrocław University of Environmental and Life Sciences is a well-recognised scientific and educational centre in the south-west region of Poland. The WUELS focuses its wide-ranging activities on education and research covering agriculture and related sciences. My personal research activities are oriented towards pesticide contamination of surface/groundwater and modelling pesticide fate. I use extensively the data from PPDB database in both research and education.

Therefore I express full support for the application by the University of Hertfordshire for funding to keep the PPDB database up to date and to develop it further. In my opinion more sophisticated searching mechanisms and customised reporting tools would facilitate the use of PPDB and expand the range of users. I would appreciate if I could join the expert users network coming with aid if needed.

Yours sincerely,


Wiesław Fiałkiewicz

L. Neumeister, Berliner Str. 13, 17291 Fürstenwerder

Dr. K. A. Lewis
Agriculture & Environment Research Unit
Science & Technology Research Institute
University of Hertfordshire
College Lane
Hatfield, Hertfordshir,
AL10 9AB United Kingdom

Penang, Malaysia 29.01.2008

Subject: Letter of support

To whom it may concern,

I am internationally working pesticide expert, who mostly works for the global NGO community. While I maintain an own pesticide database system I have found the FOOTPRINT Pesticide Property Database (PPDB) extremely useful. I regularly use the PPDB for errorchecking and confirming my own data set, but I also use data from the PPDB supplementary.

For the NGO communities, the FOOTPRINT PPDB is the only comprehensive online database besides the one provided by PAN North America. However, the FOOTPRINT database has a different reputation, covers some additional data and is more up-to-date.

It would be great to further develop the PPDB and to include more pesticides, which might play a larger role outside the EU esp. in developing countries. I also think that some search function esp. for certain threshold (e.g. bee toxicity below xx µg/bee or WHO I) and/or effects would be very useful.

I therefore, kindly ask you to support the further development on the FOOTPRINT Pesticide Property Database.

Best regards



Lars Neumeister