

Only a dry house is a good house or: If you want to drain a swamp don't ask the frogs!

Christoph Schmidt (Owner)

Engineering and Innovation Consulting
Global Assistance

- > Paradigm Change in
- Moisture Conservation Goerlitz, March 20, 2014







Christoph Schmidt – the mind behind it

- Owner and founder of Global Assistance, established in 1992.
- Service Engineer in plasma etching equipment (USA)
- Specialized in drying and renovating buildings
- Owner of one of the first, self designed passive houses since 1989 with a classic chimney effect for a better housing climate
- Main product: Drytronic® Moisture Removal Control Systems
- Energy efficiency, sustainability in products and production
- Consultant and hands-on solution finder
- Certified trainer of personnel





Member since 2008

Federal Ministry of Economics and Technology

Export Initiative Energy Efficiency

Certificate

This company is part of the export initiative energy efficiency. With energy efficient products and services of matters in energy efficiency

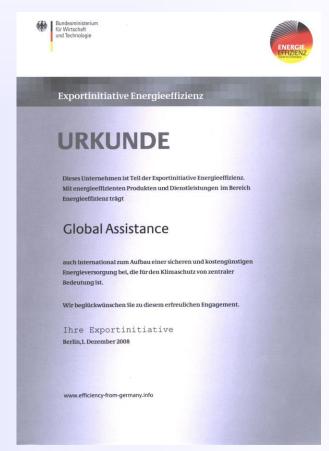
Global Assistance

internationally also takes part in building up a secure and low cost energy supply, which is of eminent importance for climate protection.

We congratulate You for your pleasant commitment.

Your Export Initiative Berlin, December 1 2008

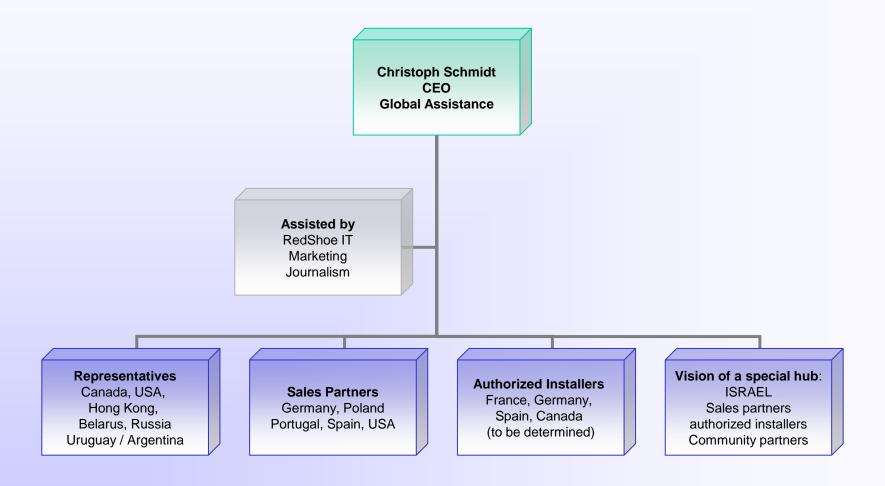
www.efficiency-from-germany.info/en







Global Assistance - Lean Management







Classic outside – comfortable, healthy climate inside



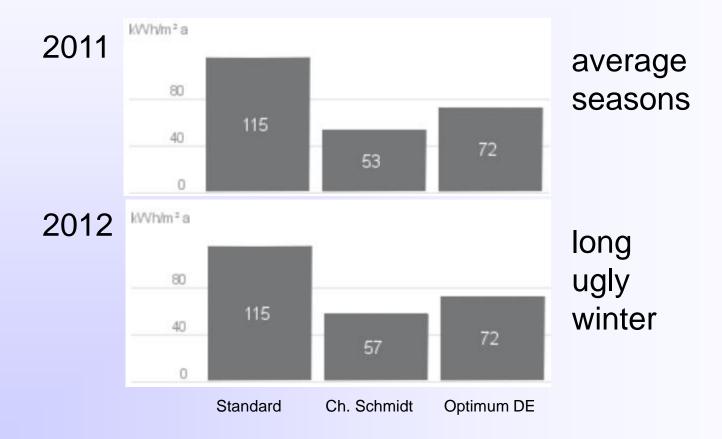
 $U = < 0.2 \text{ W/m}^2\text{k}$







My House with 50+ % Energy Saving Potential

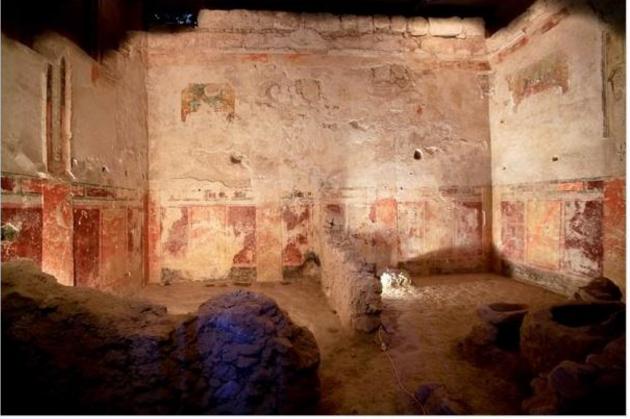






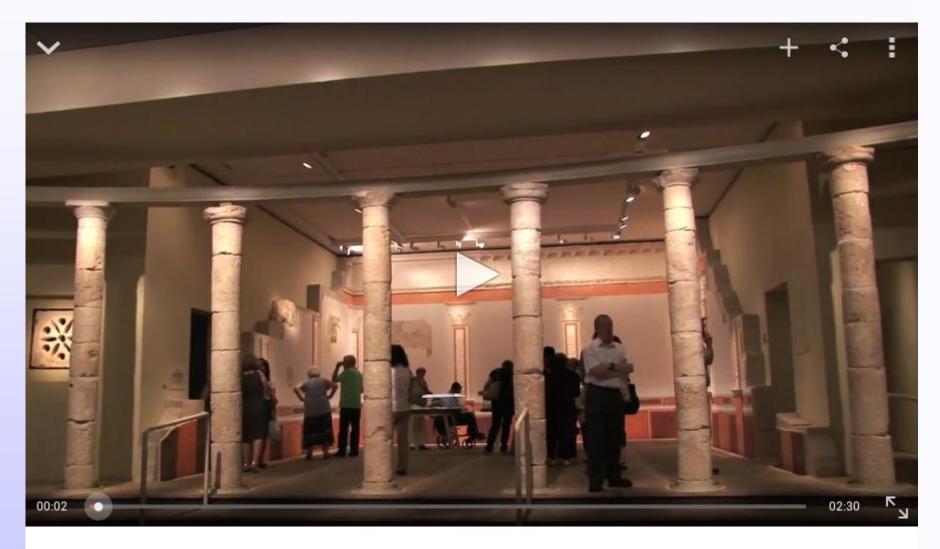
Herodion Royal Chambers Preservation Project











Israel Museum's 'Herod the Great' show







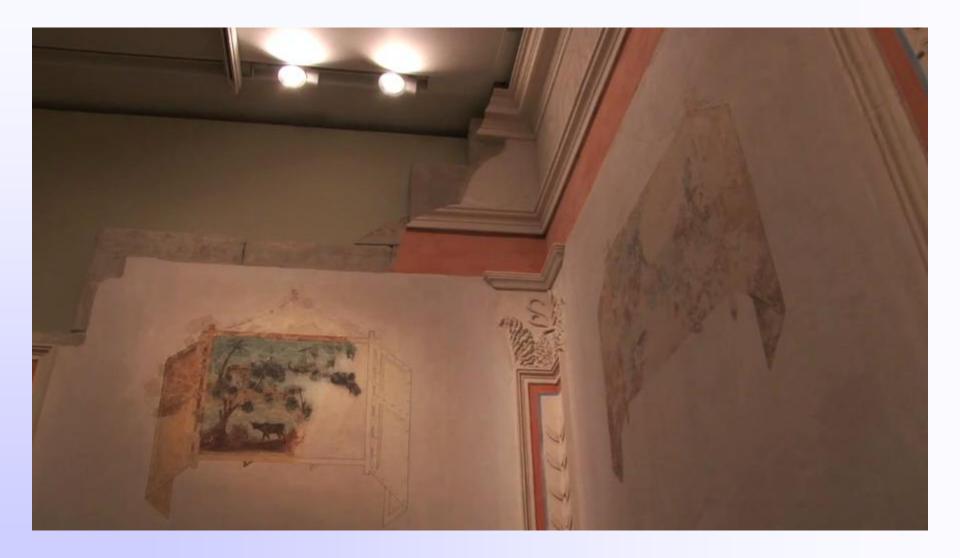
















A wet base will ruin any house!







Drytronic® changes the industry



>throw together
what we know
and get the best out of it<





Drytronic® electrochemical moisture blocking

Main features:

- low voltage
- graphite mortar mixture
- graphite electrodes
- fully automated, permanent device
- scientifically approved
- international references
- childproof

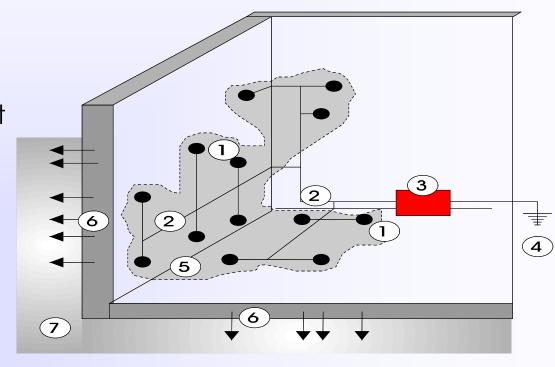






Installation scheme - basement

- 1) electrodes
- 2) wiring
- 3) Drytronic® control unit
- 4) PE (earth protection)
- 5) treated surface
- 6) working direction
- 7) ground

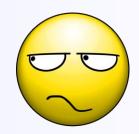






Drytronic® – intelligent calculation

Actual value of the - wet - house	100 %
+ Experts to find the possible causes	- 6%
+ classic heavy duty improvement attempts could exceed	- 50 %
value gain	+ 15 %
New value of the house (that still has to ,dry" in some way over time)	59 %
	10001



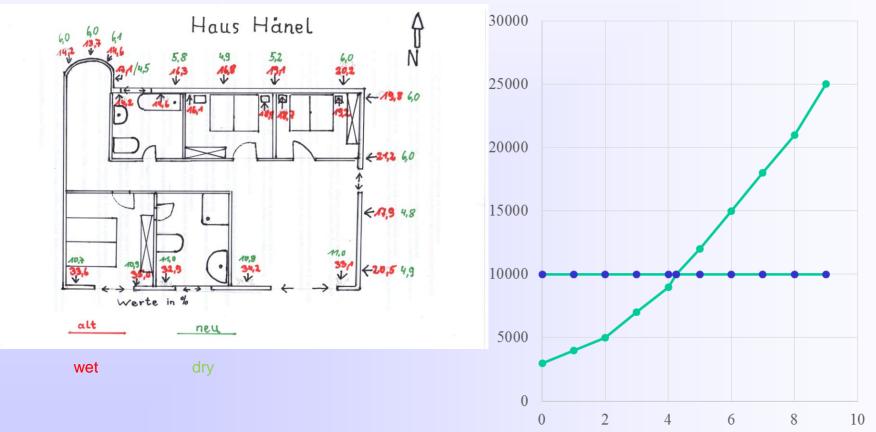
Actual value of the - wet - house	100 %
+ Drytronic® Expert to find the possible causes	- 0.5 %
+ Drytronic® system and certified contractor (average / max)	- 9.5 %
value gain	+ 15 %
New value of the dry house	105 %







Amortisation in 4 1/4 years vs some standard ... redoing







Drytronic® – intelligent technology

Israel has, as most European countries, a large number of old yet valuable buildings that have wet basements and wet walls. This is not only unhealthy to live in but also destroys the whole object within a few years.

Israel has a huge number of talented, motivated workforce with an international reputation.

With Drytronic[®], Global Assistance would not only deliver a product which dries entire basements, walls and floors, while therefore creates a healthy living environment, but also supplies an intense staff training.

At the end of such training, each trainee will receive a certificate that acknowledges, that the trainee is a certified Drytronic® technician.

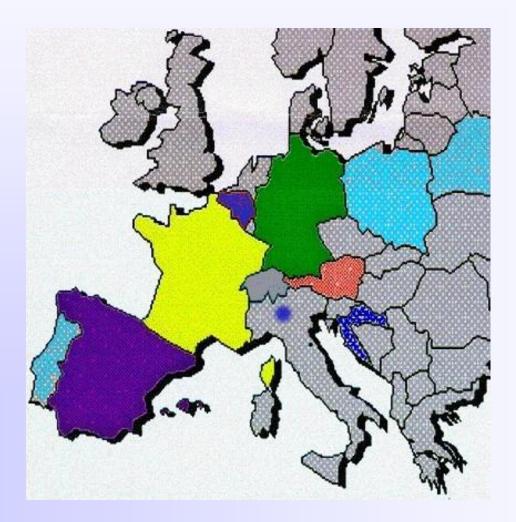






Drytronic® – representations:

→ Europe with Canary Islands and Canada, USA ...







Western wall saturated, salty, wet







Uncovered "masonry dam"







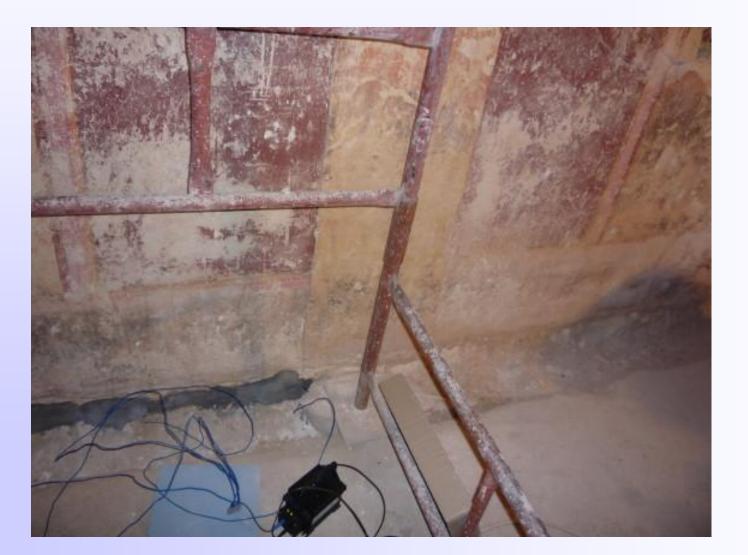
Securing Archiological Site







dry versus dripping wet







Continuously wondering







Desalination fixture







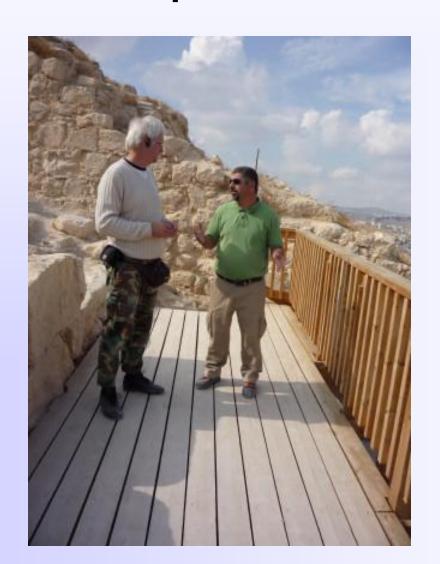
Dry with visible color change







relaxed expert exchange







Boat graphiti - 2029 years old







Electrodes go into existing holes







minimalistic Installation







dry wall overview







upper electrode pair







Extracted salt residues, hail size







Desalination Area







No salts = Clear view







Salty, saturated C-sponge







Relaxed Professionals







Amaised and touching results







Happy Experts







Congratulation for the success







Drytronic® main reference objects





































Global Assistance - main international references



























Global Assistance - main international statements

Your kind wishes have touched me.

I hope that 1995 will become a happy and successful year for you and the ones you care. >Francois Mitterand, former President of France<

I congratulate myself for this choice, but primarily I congratulate you for the development of the system, its fabulous performance and its great durability.

>Mr. Gaudineau, house owner, Paris France<

After several days the wall was dry and the odeur and humidity (wetness) was gone. >Mr. Gaido, heritages Uzès <

The first successes were already realizing after several days. After serveral weeks the drying was completed. >Dr. Obirey, renovation expert, Viterra (former VEBA)<

Completely saturated cave basement (result similar as above) The room is now in use for paper storage. >Mr. Henssler, city construction, Ludwigsburg<

The result can be called sustainable dry ... even the water pressure and rising dampness is still very high. >Mr. Braunbeck, Consulting Architects, Ludwigsburg<

Customer asks if it can be true when he saw even the tile gaps drying - through the wall - over the weekend. >Mr. Schumacher, CanSec S.L.<





THANK YOU VERY MUCH FOR YOUR KIND ATTENTION!

Contact details:

Christoph Schmidt

Service Engineer Rappenbergstr. 17 D-72119 Ammerbuch Germany

+49 (0) 707 32634 +49 (0) 177 517 97 64

CH.SCHMIDT@GLOBAL-ASSISTANCE.COM





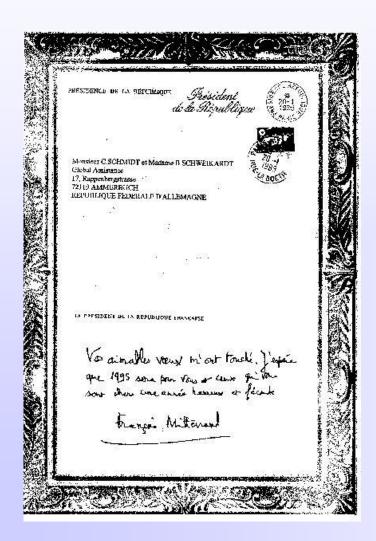


Next files are for the handout





Global Assistance – letters of recommendation



Mr Bernard GAUDINEAU 11, rue du Parc de la Montagne 94500 Champigny sur Marne FRANCE ©: 01 48 81 87 66 Champigny sur Marne, le 4 avril 2006

0 7. April 2006

à

Monsieur Christoph SCHMIDT « Global Assistance » Rappenbergstrasse 17 D-72119 AMMERBUCH-BREITENHOLZ GERMANY

OBJET: votre appareillage « DRY TRONIC » installé en mars 1995

Cher monsieur Schmidt,

Après tant d'années, je me rappelle à votre bon souvenir; c'était l'époque où j'avais à résoudre un épineux problème d'humidité dans le sous-sol de mon pavillon. En effet, au mois de mars 1995, sur le conseil de monsieur Boulandet, expert de la Société *Humidiathèque* dans le traitement de l'humidité, vous êtes venu, en compagnie de votre épouse, installer votre tout nouveau système «Dry Tronic». Je dois reconnaître que le choix de votre système électronique a eu les résultats que j'étais en droit d'en attendre. Aujourd'hui, je me félicite de ce choix, mais surtout, je vous félicite d'avoir mis au point ce système, à la fois performant et d'une grande fiabilité

Cher monsieur Schmidt, soyez-en remercié et veuillez accepter, outre mes félicitations, mes salutations les plus sincères. Soyez aimable, je vous prie, de bien vouloir transmettre mes profonds respects à votre épouse.

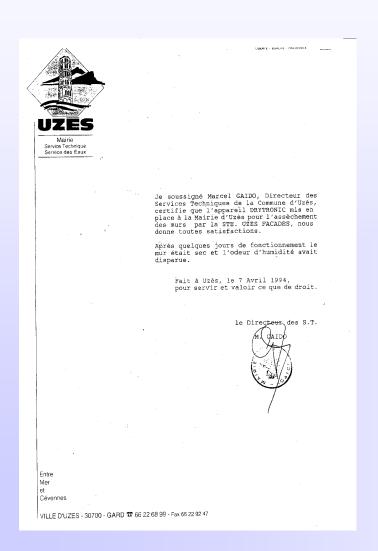
Dien cordialement,







Global Assistance – letters of recommendation





Stadtverwaltung, Postfach 249, 71602 Ludwigsburg

Firma Global Assistance Christoph Schmidt Rappenbergstr. 17

72119 Ammerbuch

HOCHBAUAMT

Fachbereich Bauunterhaltung

Auskunft erteilt Herr Henssler

Durchwahl (07141) 910-365

Datum und Zeichen Ihres Schreibens

Unser Zeichen III-65 BU he-ha Datum 01.07.1997

AWO, Abelstraße 11, 71634 Ludwigsburg - Trockenlegung des Gewölbekellers -

Sehr geehrter Herr Schmidt,

gerne bestätigen wir Ihnen, daß in unserem Gebäude Abelstraße 11 in Ludwigsburg Ihr *Dry Tronic'-System im März/April 1997 mit vorerst bestem Erfolg angewart wurde

Es handelt sich dabei um die Trockenlegung eines ca. 80 m² großen Gewölbekellers in einem etwa 100jahrigen Gebäude. Die Wände bestehen aus Mischmauerwerk, die Ankenfüllung aus unbekanntem Material.

Das aufgehende Mauerwerk, der Betonfußboden, die Schildwände und etwa die Hälfte der Gewölbeflächen waren seit Jahren total durchfeuchtet; veranlaßt durch Grundfeuchte und Hangwasser, welches nicht abgeleitet werden konnte.

Die Trocknung setzte nach wenigen Tagen ein und war nach ca. 3-4 Wochen abgeschlossen. Der Raum wird seither als Papier-lager verwendet.

Mit freundlichen Grüßen

for cel

Henssler

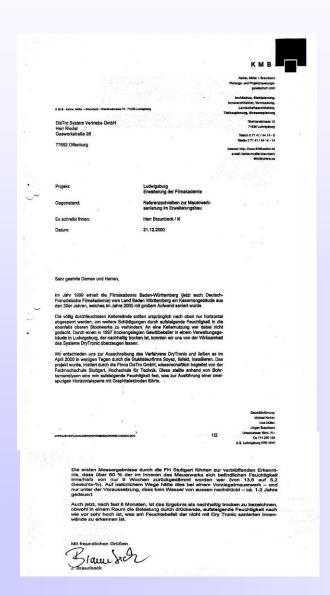
Mathildenstraße 27/1 T-Online *556670716# Telefax: 07141 / 910-762 Telefonzentrale: 07141 / 910-

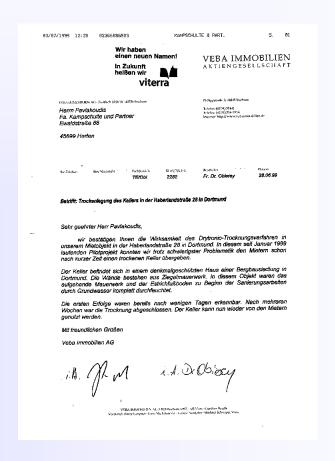
RECYCLINGPAPIER, EIN WEITERER BEITRAG UNSERER STADT ZUM UMWELTSCHUTZ





Global Assistance – letters of recommendation









Sources of the Pictures

- Slide 9 12: Screenshot von: Israel ישראל (@Israel) tweet Feb 27, 2014, 21:58: Take a trip through time in Jerusalem's Israel museum to the days of Herod the great: http://t.co/vCIDaLeVnI
- Slide 8: Bildauschnitte aus IAA Fragenanlage vom Juli 2012 und IAA 2013, Dani7RC 2010
- © 2014 All other by Global Assistance, Christoph Schmidt und Barbara Schweikardt

