



Baden-Württemberg

LANDESGESUNDHEITSAMT BADEN-WÜRTTEMBERG  
IM REGIERUNGSPRÄSIDIUM STUTTGART



# Newsletter

WHO Collaborating Centre for Housing and Health  
Baden-Württemberg State Health Office



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## Publications and Resources

### WHO updating global estimates of disease attributable to environment

WHO is currently synthesizing the impacts of all environmental and occupational risks on health, focusing on the potential for prevention. Data for more than 60 diseases and disease groups are being collated and examined. In addition, the latest assessments of health impacts of environmental risks as well as systematic reviews of the epidemiological evidence on environmental risks are under review. This meta-synthesis will result in estimates of overall impacts of the environment on health.

The evidence regarding interventions and their economic analysis will also be addressed. Results and new data are expected to be available before the end of 2015 and will be published by WHO as the second edition of *Preventing disease through healthy environments*. For more information click [here](#).

### Climate change agreement critical to public health

A new universal climate change agreement should also comprise an effective public health agreement. Health ministers and practitioners need to assert this point as countries shape the final outcome of the [United Nations Climate Change Conference \(COP21\)](#) to be held in Paris in December 2015. This was the central message of a panel convened in the margins of the UN climate change negotiations held on 2<sup>nd</sup> June in Bonn, Germany. The panel [gave an update](#) on WHO joint efforts with the UN Framework Convention on Climate Change (UNFCCC) to create country profiles for health and climate change. Each country profile outlines the health risks associated with climate change and potential opportunities to address climate change. They aim to empower health actors to engage more actively in the climate negotiations.

### Nature in urban environments reduces stress



Contact with nature in urban areas can have numerous health benefits, a new study finds. The researchers found people whose home had views of different kinds of vegetation had significantly

lower levels of stress hormones, indicating that green spaces play an important role in healthy cities. For more information click [here](#).

### Rooftop farming: The next steps for development

Urban agriculture is becoming increasingly popular. A recent assessment of rooftop farming in Barcelona shows differing attitudes towards the practice, and provides important recommendations for the development of agricultural policy for the 21st century, such as including food production as a potential use of rooftops in planning legislation. For more information click [here](#).

## Literature

In this section we will provide a collection of recent housing and health publications from a variety of backgrounds. Literature published in German or French, respectively, is indicated with the German flag  or the French flag .

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### Allergies and Respiratory Diseases

#### [Measurement of aeroallergens from furnace filters.](#)

Barnes CS, Allenbrand R, Mohammed M, Gard L, Pacheco F, Kennedy K, Portnoy JM, Ciaccio C. Ann Allergy Asthma Immunol. 2015 Mar;114(3):221-5.

#### [Early-life origins of chronic respiratory diseases: understanding and promoting healthy ageing.](#)

Carraro S, Scheltema N, Bont L, Baraldi E. Eur Respir J. 2014 Dec;44(6):1682-96.

[Association of fine particles with respiratory disease mortality: a meta-analysis.](#)

Chang X, Zhou L, Tang M, Wang B.  
Arch Environ Occup Health. 2015;70(2):98-101.

[A systematic review of associations between environmental exposures and development of asthma in children aged up to 9 years.](#)

Dick S, Friend A, Dynes K, AlKandari F, Doust E, Cowie H, Ayres JG, Turner SW.  
BMJ Open. 2014 Nov 24;4(11):e006554. [Review](#) [Free Article](#)

[Inner city asthma.](#)

Gergen PJ, Togias A.  
Immunol Allergy Clin North Am. 2015 Feb;35(1):101-14. [Review](#)

[Dusty Air Pollution is Associated with an Increased Risk of Allergic Diseases in Southwestern Part of Iran.](#)

Gheybi MK, Movahed AM, Dehdari R, Amiri S, Khazaei HA, Gooya M, Dehbashi F, Fatemi A, Sovid N, Hajjani G, Tahmasebi R, Dobaraderan S, Assadi M, Farrokhi S.  
Iran J Allergy Asthma Immunol. 2014 Dec;13(6):404-11.

[Polycyclic aromatic hydrocarbons and childhood asthma.](#)

Karimi P, Peters KO, Bidad K, Strickland PT.  
Eur J Epidemiol. 2015 Feb;30(2):91-101. [Review](#)

[Effects of early-life exposure to allergens and bacteria on recurrent wheeze and atopy in urban children.](#)

Lynch SV, Wood RA, Boushey H, Bacharier LB, Bloomberg GR, Kattan M, O'Connor GT, Sandel MT, Calatroni A, Matsui E, Johnson CC, Lynn H, Visness CM, Jaffee KF, Gergen PJ, Gold DR, Wright RJ, Fujimura K, Rauch M, Busse WW, Gern JE.  
J Allergy Clin Immunol. 2014 Sep;134(3):593-601.e12.

[Respiratory effects in children from passive smoking of cigarettes and narghile: ISAAC Phase Three in Syria.](#)

Mohammad Y, Shaaban R, Hassan M, Yassine F, Mohammad S, Tessier JF, Ellwood P.  
Int J Tuberc Lung Dis. 2014 Nov;18(11):1279-84.

[Asthma, allergy and eczema among adults in multifamily houses in Stockholm \(3-HE study\)-- associations with building characteristics, home environment and energy use for heating.](#)

Norbäck D, Lampa E, Engvall K.  
PLoS One. 2014 Dec 5;9(12):e112960. eCollection 2014. [Free Article](#)

[Asthma and the hygiene hypothesis. Does cleanliness matter?](#)

Weber J, Illi S, Nowak D, Schierl R, Holst O, von Mutius E, Ege MJ.  
Am J Respir Crit Care Med. 2015 Mar 1;191(5):522-9.

[The role of the early-life environment in the development of allergic disease.](#)

Wegienka G, Zoratti E, Johnson CC.  
Immunol Allergy Clin North Am. 2015 Feb;35(1):1-17.

## Indoor Air

[Phthalate exposure through different pathways and allergic sensitization in preschool children with asthma, allergic rhinoconjunctivitis and atopic dermatitis.](#)

Bekö G, Callesen M, Weschler CJ, Toftum J, Langer S, Sigsgaard T, Høst A, Kold Jensen T, Clausen G.  
Environ Res. 2015 Feb;137:432-9.

[Flame retardant exposures in California early childhood education environments.](#)

Bradman A, Castorina R, Gaspar F, Nishioka M, Colón M, Weathers W, Egeghy PP, Maddalena R, Williams J, Jenkins PL, McKone TE.  
Chemosphere. 2014 Dec;116:61-6.

[Relationship between daily exposure to biomass fuel smoke and blood pressure in high-altitude Peru.](#)

Burroughs Peña M, Romero KM, Velazquez EJ, Davila-Roman VG, Gilman RH, Wise RA, Miranda JJ, Checkley W.  
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[Distribution patterns of brominated, chlorinated, and phosphorus flame retardants with particle size in indoor and outdoor dust and implications for human exposure.](#)

Cao Z, Xu F, Covaci A, Wu M, Wang H, Yu G, Wang B, Deng S, Huang J, Wang X.  
Environ Sci Technol. 2014;48(15):8839-46.

[Comparing human exposure to emerging and legacy flame retardants from the indoor environment and diet with concentrations measured in serum.](#)

Cequier E, Marcé RM, Becher G, Thomsen C.  
Environ Int. 2015 Jan;74:54-9.

[Household cooking with solid fuels contributes to ambient PM2.5 air pollution and the burden of disease.](#)

Chafe ZA, Brauer M, Klimont Z, Van Dingenen R, Mehta S, Rao S, Riahi K, Dentener F, Smith KR.  
Environ Health Perspect. 2014 Dec;122(12):1314-20.

[Levels and sources of volatile organic compounds in homes of children with asthma.](#)

Chin JY, Godwin C, Parker E, Robins T, Lewis T, Harbin P, Batterman S.  
Indoor Air. 2014 Aug;24(4):403-15.

[Urinary biomonitoring of phosphate flame retardants: levels in California adults and recommendations for future studies.](#)

Dodson RE, Van den Eede N, Covaci A, Perovich LJ, Brody JG, Rudel RA.  
Environ Sci Technol. 2014 Dec 2;48(23):13625-33. [Free Article](#)

[Assessment of indoor environmental quality in existing multi-family buildings in North-East Europe.](#)

Du L, Prasauskas T, Leivo V, Turunen M, Pekkonen M, Kiviste M, Aaltonen A, Martuzevicius D, Haverinen-Shaughnessy U.  
Environ Int. 2015 Jun;79:74-84.

[Prenatal exposure to polycyclic aromatic hydrocarbons and cognitive dysfunction in children.](#)

Jedrychowski WA, Perera FP, Camann D, Spengler J, Butscher M, Mroz E, Majewska R, Flak E, Jacek R, Sowa A.  
Environ Sci Pollut Res Int. 2015 Mar;22(5):3631-9. [Free Article](#)

[Particle transport characteristics in indoor environment with an air cleaner.](#)

Jin X, Yang L, Du X, Yang Y.  
Indoor and Built Environment, Jun 2015; vol. 0: 1420326X15592253. [Epub ahead of print]

[Cancer risk assessment of human exposure to polycyclic aromatic hydrocarbons \(PAHs\) via indoor and outdoor dust based on probit model.](#)

Kang Y, Shao D, Li N, Yang G, Zhang Q, Zeng L, Luo J, Zhong W.  
Environ Sci Pollut Res Int. 2015 Mar;22(5):3451-6.

[The public health benefits of reducing fine particulate matter through conversion to cleaner heating fuels in New York City.](#)

Kheirbek I, Haney J, Douglas S, Ito K, Caputo S Jr, Matte T.  
Environ Sci Technol. 2014 Dec 2;48(23):13573-82.

[Polybrominated diphenyl ethers in the air and comparison of the daily intake and uptake through inhalation by Shanghai residents with those through other matrices and routes.](#)

Li C, Zhao Z, Lei B, An J, Zhang X, Yu Y.  
Environ Sci Pollut Res Int. 2015 Feb;22(3):1750-9.

[Correlation of in vivo relative bioavailability to in vitro bioaccessibility for arsenic in household dust from China and its implication for human exposure assessment.](#)

Li HB, Li J, Juhasz AL, Ma LQ.  
Environ Sci Technol. 2014 Dec 2;48(23):13652-9.

[Impact of ferromanganese alloy plants on household dust manganese levels: implications for childhood exposure.](#)

Lucas EL, Bertrand P, Guazzetti S, Donna F, Peli M, Jursa TP, Lucchini R, Smith DR.  
Environ Res. 2015 Apr;138:279-90.

[Quantifying the contribution of ambient and indoor-generated fine particles to indoor air in residential environments.](#)

MacNeill M, Kearney J, Wallace L, Gibson M, Héroux ME, Kuchta J, Guernsey JR, Wheeler AJ.  
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[A review of soil and dust ingestion studies for children.](#)

Moya J, Phillips L.  
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[Macrocyclic-, polycyclic-, and nitro musks in cosmetics, household commodities and indoor dusts collected from Japan: implications for their human exposure.](#)

Nakata H, Hinosaka M, Yanagimoto H.  
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[Indoor particulate matter in rural, wood stove heated homes.](#)

Semmens EO, Noonan CW, Allen RW, Weiler EC, Ward TJ.  
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[The domestic environment and respiratory health of school children in Zongshan, China.](#)

Spickett J, Rumchev K, Jing H.  
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[Flame retardant associations between children's handwipes and house dust.](#)

Stapleton HM, Misenheimer J, Hoffman K, Webster TF.  
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[Analysis on combinations of indoor thermal microclimate parameters in radiant cooled residential buildings and drawing of new thermal comfort charts.](#)

Sui X, Xu Zhang X.  
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[Infiltration of Black Carbon Particles from Residential Woodsmoke into Nearby Homes.](#)

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[Levels of polybrominated diphenyl ethers in settled house dust from urban dwellings with resident preschool-aged children in Nanjing, China.](#)

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[Indoor air quality in green buildings: A case-study in a residential high-rise building in the northeastern United States.](#)

Xiong Y, Krogmann U, Mainelis G, Rodenburg LA, Andrews CJ.  
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[Source identification and health risk assessment of metals in indoor dust in the vicinity of phosphorus mining, Guizhou Province, China.](#)

Yang Q, Chen H, Li B.  
Arch Environ Contam Toxicol. 2015 Jan;68(1):20-30.

[Polybrominated diphenyl ethers \(PBDEs\) in the indoor dust in China: levels, spatial distribution and human exposure.](#)

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## **Mould and Dampness**

[Thirdhand cigarette smoke: factors affecting exposure and remediation.](#)

Bahl V, Jacob P 3rd, Havel C, Schick SF, Talbot P.  
PLoS One. 2014 Oct 6;9(10):e108258. *Free Article*

[Fungal exposure, atopy, and asthma exacerbations in Puerto Rican children.](#)

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[Residential culturable fungi, \(1-3, 1-6\)- \$\beta\$ -d-glucan, and ergosterol concentrations in dust are not associated with asthma, rhinitis, or eczema diagnoses in children.](#)

Choi H, Byrne S, Larsen LS, Sigsgaard T, Thorne PS, Larsson L, Sebastian A, Bornehag CG.  
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[Applicability of the environmental relative moldiness index for quantification of residential mold contamination in an air pollution health effects study.](#)

Kamal A, Burke J, Vesper S, Batterman S, Vette A, Godwin C, Chavez-Camarena M, Norris G.  
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[Microbiological characterization of 3193 French dwellings of Elfe cohort children.](#)

Rocchi S, Reboux G, Frossard V, Scherer E, Valot B, Laboissière A, Zaros C, Vacheyrou M, Gillet F, Roussel S, Raheison C, Millon L; Elfe team.  
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[Environmental relative moldiness index and associations with home characteristics and infant wheeze.](#)

Rosenbaum PF, Crawford JA, Hunt A, Vesper SJ, Abraham JL.  
J Occup Environ Hyg. 2015;12(1):29-36.

[Remediating buildings damaged by dampness and mould for preventing or reducing respiratory tract symptoms, infections and asthma.](#)

Sauni R, Verbeek JH, Uitti J, Jauhiainen M, Kreiss K, Sigsgaard T.  
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[Exposure to visible mould or dampness at home and sleep problems in children: Results from the LISAplus study.](#)

Tiesler CM, Thiering E, Tischer C, Lehmann I, Schaaf B, von Berg A, Heinrich J.  
Environ Res. 2015 Feb;137:357-63.

## Light and Radiation

[A geospatial approach to the prediction of indoor radon vulnerability in British Columbia, Canada.](#)

Branion-Calles MC, Nelson TA, Henderson SB.  
J Expo Sci Environ Epidemiol. 2015 Mar 25. [Epub ahead of print]

[Hierarchical modeling of indoor radon concentration: how much do geology and building factors matter?](#)

Borgoni R, De Francesco D, De Bartolo D, Tzavidis N.  
J Environ Radioact. 2014 Dec;138:227-37.

[Radon mitigation in cold climates at Kitigan Zibi Anishinabeg.](#)

Brossard M, Ottawa CB, Falcomer R, Whyte J.  
Health Phys. 2015 Feb;108(1 Suppl 1):S13-8.

[Procedure for the characterization of radon potential in existing dwellings and to assess the annual average indoor radon concentration.](#)

Collignan B, Powaga E.  
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[Naturally occurring radioactive materials \(NORMs\) generated from lignite-fired power plants in Kosovo.](#)

Hasani F, Shala F, Xhixha G, Xhixha MK, Hodolli G, Kadiri S, Bylyku E, Cfarku F.  
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[Distribution of <sup>222</sup>Rn concentration in an inhabited area adjacent to the Aja granitic heights of Hail Province, Saudi Arabia.](#)

Kinsara AA, Shabana el-SI, Abulfaraj WH, Qutub MM.  
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[Luminous environment in healthcare buildings for user satisfaction and comfort: an objective and subjective field study.](#)

Lo V, Valerio RM, Caffaro F, Aghemo C.  
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[The Spanish indoor radon mapping strategy.](#)

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[A comparison of radon and its decay products' behaviour in indoor air.](#)

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[Winnipeg radon testing: comparison of test durations, effects of house characteristics, and efficacy of floor-drain seals.](#)

Warkentin PE, Johnson HM.  
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[High variability of indoor radon concentrations in uraniumiferous bedrock areas in the Balkan region.](#)

Zunić ZS, Ujić P, Nađđerđ L, Yarmoshenko IV, Radanović SB, Komatina Petrović S, Celiković I, Komatina M, Bossew P.

Appl Radiat Isot. 2014 Dec;94:328-37.

## Smoking / Environmental Tobacco Smoke

[Electronic cigarette use and exposure in the pediatric population.](#)

Collaco JM, Drummond MB, McGrath-Morrow SA.

JAMA Pediatr. 2015 Feb;169(2):177-82. *Review*

[Electronic nicotine delivery systems: executive summary of a policy position paper from the American College of Physicians.](#)

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[Medical symptoms among pilots associated with work and home environments: a 3-year cohort study.](#)

Fu X, Lindgren T, Norbäck D.

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[Electronic cigarettes are a source of thirdhand exposure to nicotine.](#)

Goniewicz ML, Lee L.

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Hilton S, Wood K, Bain J, Patterson C, Duffy S, Semple S.

BMC Public Health. 2014 Oct 29;14:1116. *Free Article*

[Smoking restrictions in homes after implementation of a smoking ban in public places.](#)

Kairouz S, Lasnier B, Mihaylova T, Montreuil A, Cohen JE.

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[The economic burden of exposure to secondhand smoke for child and adult never smokers residing in U.S. public housing.](#)

Mason J, Wheeler W, Brown MJ.

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[Full and home smoking ban adoption after a randomized controlled trial targeting secondhand smoke exposure reduction.](#)

Nicholson JS, McDermott MJ, Huang Q, Zhang H, Tyc VL.

Nicotine Tob Res. 2015 May;17(5):612-6.

[Environmental tobacco smoke exposure and children's intelligence at 8-11 years of age.](#)

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[Children's perspectives on how parents protect them from secondhand smoke in their homes and cars in socioeconomically contrasting communities: a qualitative study.](#)

Rowa-Dewar N, Amos A, Cunningham-Burley S.

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[How long does secondhand smoke remain in household air: analysis of PM2.5 data from smokers' homes.](#)

Semple S, Latif N.

Nicotine Tob Res. 2014 Oct;16(10):1365-70.



[Prenatal and postnatal exposure to parental smoking increases odds of allergic diseases during childhood and adolescence.](#)

von Kobyletzki L, Svensson Å.  
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[Relationship between caregivers' smoking at home and urinary levels of cotinine in children.](#)

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Int J Environ Res Public Health. 2014 Dec 1;11(12):12499-513. [Free Article](#)

[Exposure to parental smoking in childhood is associated with increased risk of carotid atherosclerotic plaque in adulthood: the Cardiovascular Risk in Young Finns Study.](#)

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[Smoking in cars carrying children will be illegal in England from October.](#)

Wise J.  
BMJ. 2015 Feb 20;350:h836.

### **Housing and Ageing Society**

[Relationships between perceived aspects of home and symptoms in a cohort aged 67-70.](#)

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### **Home Safety**

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Arasli Yilmaz A, Köksal AO, Özdemir O, Acar M, Küçükkonyali G, Inan Y, Çelik S, Güveloğlu M, Andiran N, Günbey S.  
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[A review of community management of paediatric burns.](#)

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Robnett RH, Bliss S, Buck K, Dempsey J, Gilpatric H, Michaud K.  
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## Housing Conditions

[Environmental determinants of different blood lead levels in children: a quantile analysis from a nationwide survey.](#)

Etchevers A, Le Tertre A, Lucas JP, Bretin P, Oulhote Y, Le Bot B, Glorennec P.  
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## Event Announcements

### 2015

#### **27<sup>th</sup> Conference of the International Society for Environmental Epidemiology**

„Addressing Environmental Health Inequalities“

August 30 – September 3, 2015

São Paulo, Brazil

Further Information: [27th Conference of the International Society for Environmental Epidemiology](#)

#### **13<sup>th</sup> World Allergy Congress 2015**

October 14–17, 2015

Seoul, Korea

Further Information: [World Allergy Congress](#)

**8<sup>th</sup> International Conference on Children's Environmental Health and Safety**

October 15–17, 2015

Stresa, Italy

Further Information: [INCHES 2015](#)**9<sup>th</sup> National Housing Conference**

October 28–30, 2015

Perth, Australia

Further Information: [NHC - National Housing Conference](#)**4. Schulkongress "Zukunftsraum Schule" **4<sup>th</sup> Congress on School Settings

November 17–18, 2015

Stuttgart, Germany

Further Information: [Zukunftsraum Schule :: Information](#)**2015 Greenbuild International Conference and Expo**

November 18–22, 2015

Washington D.C., USA

Further Information: [2015 Greenbuild International Conference and Expo](#)**Nanotechnology based sensors and detection methods - workshop**

December 1–2, 2015

Ispra, Italy

Further Information: [Nanotechnology based sensors and detection methods - workshop - JRC Science Hub - European Commission](#)**2016****14<sup>th</sup> International Conference on Indoor Air Quality and Climate**

July 3–8, 2016

Ghent, Belgium

Further Information: [Indoor air 2016 |](#)**17<sup>th</sup> IUAPPA World Clean Air Congress - Mega-City Perspectives**

August 28 – September 2

Busan, South Korea

Further Information: [IUAPPA 2016](#)**41<sup>st</sup> IAHS World Congress on Housing**

September 13–16, 2016

Algarve, Portugal

Further Information: [IAHS2016](#)



## Message Board

In this section we will inform you about activities and projects related to housing and health that are being carried out by WHO or the WHO CC. This may relate to ongoing activities and projects, as well as invitations to participate in data collections or case study projects.

### WHO work on indoor, built and urban environments

#### European Environment and Health Process Mid-term Review (EHP-MTR)

On 28–30 April 2015 in Haifa, Israel, countries of the WHO European Region evaluated the status of the environment and health in Europe and central Asia at the European Environment and Health Process Mid-term Review (EHP-MTR).

High-level country representatives and international, intergovernmental, and nongovernmental organizations reviewed progress and gaps on the environment and health goals set five years ago at the Fifth Ministerial Conference on Environment and Health in Parma, Italy.

With the 2010 Parma Declaration, all countries committed to the first-ever time-bound goals on the environment and health. They include providing safe water and sanitation, healthy and safe settings for physical activity and environments free of tobacco smoke and toxic chemicals, and the elimination of asbestos-related diseases.

All thematic reports and publications associated with the Mid-term Review can be accessed [here](#); the overview report “Improving environment and health in Europe: how far have we gotten?” can be downloaded [here](#) (Russian version available [here](#)).

#### Heatwaves and health: guidance on warning-system development

Heat or hot weather that lasts for several days, often referred to as “a heatwave” can have a significant impact on society, including a rise in mortality and morbidity. Heatwaves also place an increased strain on infrastructure (power, water and transport). This guidance has been developed jointly by the World Meteorological Organization and the World Health Organization to outline the issues surrounding the general heat–health problem and present how an understanding of the biometeorology, epidemiology, public-health and risk-communication aspects of heat as a hazard can be used to inform the development of warning systems.

The report can be accessed [here](#). Further practical guidance and advice on preventing health effects of heat are available [here](#).

#### Air quality and health resolution adopted at the sixty-eighth World Health Assembly

A landmark resolution on air quality and health has been adopted at the sixty-eighth World Health Assembly to address the health impacts of air pollution – the world’s largest single environmental health risk. Every year 4.3 million deaths occur from exposure to indoor air pollution and 3.7 million deaths are attributable to outdoor air pollution. This was the first time the Health Assembly had debated the topic.

The resolution highlights the key role national health authorities need to play in raising awareness about the potential to save lives and reduce health costs, if air pollution is addressed effectively. It also stresses the need for strong cooperation between different sectors and integration of health concerns into all national, regional and local air pollution-related policies. It urges Member States to develop air quality monitoring systems and health registries to improve surveillance for all illnesses related to air pollution; promote clean cooking, heating and lighting technologies and fuels; and strengthen international transfer of expertise, technologies and scientific data in the field of air pollution.

The resolution asks the WHO Secretariat to strengthen its technical capacities to support Member States in taking action on air pollution. This includes further building capacity to: implement the “WHO

*air quality guidelines*" and *"WHO indoor air quality guidelines*; conduct cost-benefit assessment of mitigation measures; and advance research into air pollution's health effects and effectiveness. At the Sixty-ninth World Health Assembly, WHO will propose a road map for an enhanced global response by the health sector that reduces the adverse health effects of air pollution. See the draft resolution [here](#).

### **Poor indoor environments at school**

Children are exposed to poor indoor environments in schools in many countries in the WHO European Region, with issues including stuffy air, dampness and mould, uncomfortable temperatures and poorly functioning toilets. This not only causes ill health and absenteeism but also reduces children's academic performance and well-being.

A new WHO report, *School environment: policies and current status*, presents the results of a recent WHO survey on policies to improve environmental and health conditions in European schools and kindergartens. It also draws on other international and national surveys in schools. The report's findings also contributed to discussions at the mid-term review of the European Environment and Health Process in Haifa, Israel, on 28–30 April 2015.

The report is available [here](#), a Russian version is available [here](#).

Subscribe to the European Environment and Health Process Newsletter at <http://www.euro.who.int/en/media-centre/newsletters/european-environment-and-health-process-newsletter>

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Landesgesundheitsamt Baden-Württemberg  
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phone +49 (0)711· 904 35000

WHO Collaborating Centre for Housing and Health  
Head: Dr. Karlin Stark  
Nordbahnhofstrasse 135  
70191 Stuttgart

fax +49 (0)711· 904 35105

[who.cc@rps.bwl.de](mailto:who.cc@rps.bwl.de)  
[www.whocc-housing-and-health.de](http://www.whocc-housing-and-health.de)

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#### **Editors:**

Dr. Snezana Jovanovic, Dr. Annette Rebmann  
Dr. Guido Fischer, Stefan Kluge