

## **Publicaciones**

### **Centro de Física Aplicada y Tecnología Avanzada de la UNAM (Informe de Actividades 2010-2011)**

#### **M.C. Francisco Fernández Escobar**

##### **Treatment time reduction using tandem shockwaves for lithotripsy: an in vivo study**

Francisco Fernández, Gilberto Fernández, Achim M. Loske  
J Endourol ,23(2009) 1247-1253

##### **The importance of an expansion chamber during standard and tandem extracorporeal shock wave lithotripsy**

Francisco Fernández, Gilberto Fernández, Achim M. Loske  
J Endourol ,23(2009) 693-697

##### **Electrolytic resistivity measurement using alternating current with high frequencies**

José Samuel Meráz, Francisco Fernández, Luis Fernando Magaña  
Rev Mex Fis ,55(2009) 149-152

##### **Interaction of intracorporeal lithotripters with *Proteus mirabilis* inoculated inside artificial calcium and struvite stones**

Joel Gustavo Gómez-Nuñez, Ulises M. Álvarez, Francisco Fernández, Jorge Gutiérrez Aceves, Achim M. Loske  
J Endourol ,23(2009) 519-522

##### **Inactivation of bacteria inoculated inside urinary stone-phantoms using intracorporeal lithotripters**

Jorge Gutiérrez, Ulises M. Álvarez, Enrique Mues, Francisco Fernández, Gustavo Gómez, Achim M. Loske  
Urol Res ,36(2008) 67-72

##### **The influence of single-pulse and tandem shock waves on bacteria**

Ulises M. Álvarez, Araceli Ramírez, Francisco Fernández, Arturo Méndez, Achim M. Loske  
Shock Waves ,17(2008) 441-447

##### **Interaction of shock waves with bacteria inoculated inside artificial kidney stones: Is there a bactericidal effect?**

María del Sol Quintero, Ulises M. Álvarez, Carmen Wachter, Jorge Gutiérrez, Eduardo Castaño-Tostado, Francisco Fernández, Achim M. Loske  
J Endourol ,22(2008) 1629-1638

##### **Innovative piezoelectric extracorporeal lithotripter**

Achim M. Loske, Francisco Fernández, Gilberto Fernández  
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##### **Microorganism inactivation by acoustic cavitation produced with underwater shock waves**

Achim M. Loske, Ulises M. Álvarez, Araceli Ramírez, Francisco Fernández, Arturo Méndez  
Revista de Acústica (Soc. Española de Acústica) ,38(2007) 1-4

##### **Bacteria inactivation during lithotripsy**

María del Sol Quintero, Ulises Mora, Jorge Gutiérrez, Enrique Mues, Eduardo Castaño, Francisco Fernández, Achim M. Loske  
American Institute of Physics, Conference Proceedings ,854(2006) 60-62

**Steigerung der Fragmentationseffizienz durch Verstärkung von Kavitation zur berührungsfreien Nierensteinzertrümmerung**

Achim M. Loske, Francisco Fernández, Jorge Gutiérrez  
Z Med Phys ,15(2005) 53-58

**Dual Pulse shock wave lithotripsy: in vitro and in vivo study**

Achim M. Loske, Francisco Fernández, Horacio Zendejas, Miguel I. Paredes, Eduardo Castaño-Tostado  
J Urology ,174(2005) 2388-2392

**Desarrollo de un litotriptor extracorporeal más eficiente**

Francisco Fernández, Achim M. Loske, Horacio Zendejas, Eduardo Castaño, Miguel Paredes  
Rev Mex Ing Biomed ,21(2005) 7-15

**A Method for the Measurement of the Resistance of Electrolytic Solutions**

J. S. Meraz, F. Fernández, L. F. Magaña  
J Electrochem Soc ,152(2005) 135-137

**Electronic device to improve the efficiency of extracorporeal lithotripters**

F. Fernández, A. M. Loske, J. van Cauwelaert, F. E. Prieto  
Journal of Applied Research and Technology ,2(2004) 170-178

**Out-of-focus shockwaves: a new tissue-protecting therapy?**

Achim M. Loske, Jorge Gutierrez, Eugenio Di Grazia, Francisco Fernandez  
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**The electric resistance in electrolytic solutions**

F. Fernández E., J.S. Meraz M. and L.F. Magaña S.  
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**Conversion of an HM3 lithotripter into a research device**

Achim M. Loske, Arturo Méndez, Francisco Fernández, Helmuth Busch, Mario Granizo, Fernando E. Prieto  
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**Tandem shock wave cavitation enhancement for extracorporeal lithotripsy**

Achim M Loske, Fernando E Prieto, Francisco Fernández and Javier van Cauwelaert  
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**Generadores más eficientes para litotripsia extracorporeal**

Achim M. Loske, Francisco Fernández, Javier van Cauwelaert, Fernando E. Prieto  
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**Piezoelectric tandem shock wave generation for extracorporeal shock wave lithotripters.**

Achim M. Loske, Fernando E. Prieto, Javier van Cauwelaert y Francisco Fernández  
Physica Medica: European Journal of Medical Physics ,18(2002) 7-14

**Design and construction of an electrochemical etching power supply**

Espinosa Guillermo, Fernández Francisco and Castaño Víctor  
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**Medidor de vacío tipo pirani**

C. Arzate T.R., F. Fernández E. y P. Morales P.  
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**Control numérico adaptable en protocolo IEEE - 488**

F.J. Pena B., F. Fernández E. y P. Morales P.

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**Sistema transductor de desplazamiento escalado por computadora**

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**Instrumentación asociada a una balanza termomagnética**

M. Rivera H., F. Fernández E. y P. Morales P.

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