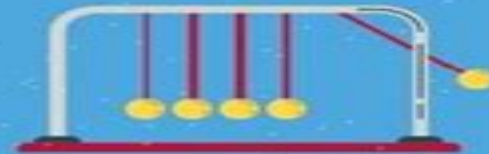


PETER HÄUBLER



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Donnerwetter - Physik! Peter Häußler, 2016-07-29 Jetzt als Sonderausgabe Auf einer Geburtstagsparty werden Jugendlichen sieben Zauberkunststücke vorgeführt. Sieben erstaunliche Phänomene, die Anne und ihre Freunde zunächst vor Ratlosigkeit stellen. Doch so nach und nach kommen sie den Tricks auf die Spur. Mit der Unterstützung eines Nachbarn, einem pensionierten Physiker, entwickeln sie dazu physikalische Ideen. Anhand des Gewichts von Schokolade wird die Einheit für die Kraft diskutiert. Schau mir in die Augen, leitet ein Gespräch über die Bildentstehung ein. Das Beobachten von Zugvögeln ist Aufhänger für den Magnetismus, und ein heftiges Gewitter gibt Anlass zum Nachdenken über die Elektrizität. Auch die von Physikern entwickelten Vorstellungen zu Quarks, Weißen Zwergen und Schwarzen Löchern kommen zur Sprache. Peter Häußler ist Professor für die Didaktik der Physik an der Universität Kiel und versteht es lebendig und spannend zu schreiben über die Grundlagen der Physik hinaus. Erfährt der Leser auch etwas über ihre Erkenntnismethoden und den Unterschied zwischen Alltags- und Wissenschaftssprache. Alle Versuche sind genau beschrieben und können ohne großen Aufwand mit alltäglichen Gegenständen nachvollzogen werden. Das Buch ermutigt Jugendliche wie Erwachsene sich wieder einmal mit Physik zu beschäftigen, Kenntnisse aufzufrischen oder zu erweitern. *Facetten einer Wissenschaft* Achim Müller, Ekkehard

Diemann, Hans-Jürgen Quadbeck-Seeger, 2009-02-11 Wie sich beim Drehen des Kaleidoskops unterschiedliche Bilder zeigen, so führen die vielfältigen Beiträge die unterschiedlichsten Facetten der Chemie auf. Autoren aus den drei großen Bereichen Forschung, Lehre und Industrie spannen einen vielfarbigen Bilderbogen dieser Wissenschaft auf. Von medizinischen Ansichten, weshalb wir Zink zum Leben brauchen, physikalischen und mathematischen Aspekten wie das physikalische Nichts über den Nachweis, dass die Chemie alles andere als Old Economy ist, bis hin zu literaturwissenschaftlichen Gesichtspunkten wie was ist Science in fiction. Mit liebevoll ausgesuchten Beispielen setzen die Autoren einen Kontrapunkt zum vorherrschenden Bild der Chemie in der Öffentlichkeit. Wer mit der Chemie weniger vertraut ist, wird auf neuartige Weise viel Interessantes erfahren, aber auch der Profi wird zu anregenden Perspektiven über sein Fachgebiet eingeladen. **Forschungsbasierte**

Schulpädagogik Martin Wellenreuther, 2019-10-01 Evidenzbasierung auch in der Pädagogik. Von einem Arzt erwarten wir, dass er bei der Behandlung den neuesten Forschungsstand berücksichtigt. Wenn ein Arzt bei einer Lungenentzündung kalte Wickel und Kamillentee verordnet, begeht er einen Kunstfehler und muss sich vor Gericht verantworten. Von einem Pädagogen sollte in gleicher Weise erwartet werden, dass er den aktuellen Kenntnisstand in der pädagogischen Forschung angemessen berücksichtigt. Ein Pädagoge macht z.B. Kunstfehler, wenn er nur massiert mit seinen Schülern, aber wenn er bei der Vermittlung komplexer neuer Inhalte Schüler Problemlösungen entdecken lässt, oder wenn er Schüler die eine miserable Klassenarbeit geschrieben haben mit den Worten tröstet: Mach dir nichts draus. Mathematik ist halt nicht deine Stärke. In den letzten Jahrzehnten hat sich die Pädagogik als naturwissenschaftliche Disziplin etabliert. TIMSS, Pisa und J-Hattie haben diese Entwicklung von einer geisteswissenschaftlichen Disziplin zu einer naturwissenschaftlichen Disziplin befördert. In der

Forschungsbasierten Schulp dagogik wird dies durch die Darstellung von 23 Experimenten zum Lehren und Lernen dokumentiert Wenn es nach den geisteswissenschaftlich orientierten P dagogen gehen w rde d rfte es diese Experimente gar nicht geben Diese Experimente beziehen sich auf zentrale Fragen der Schulp dagogik z B Entdeckendes Lernen ist beim Erwerb neuen Wissens ungeeignet Sch ler sind hier auf massive Hilfen z B durch L sungsbeispiele angewiesen Besonders trifft dies auf lernschw chere Sch ler zu Tests k nnen Lernen und Angstabbau unterst tzen auch wenn sie unter bestimmten Voraussetzungen Angst ausl sen Gruppen und Tutorienarbeit kann Kindern mit massiven Wissensl cken helfen den Anschluss zum Wissensstand der Klasse wieder zu finden Allerdings m ssen dazu Lehrkr fte auch durch Lehrerfortbildungen bef higt werden bei rzten sind solche Fortbildungen eine Selbstverst ndlichkeit **Nobelpreise** Heinrich Zankl,2012-03-08 Der Nobelpreis ist die wichtigste Ehrung weltweit Dass bei der Auswahl und Vergabe vielleicht nicht immer alles mit richtigen Dingen zugeht ist nur menschlich und dazu kann man viele interessante witzige und prek re Geschichten erz hlen

European Journal of Organic Chemistry ,2007 **Lust und Liebe - alles nur Chemie?** Gabriele Froböse,Rolf Froböse,2012-03-08 Hinter dem Titel des Bandes verbirgt sich mehr als blo die Analyse von Aphrodisiaka oder Potenzmitteln Gro hirnrinde Hypophyse oder k rpereigene Opiate Sie alle sind beteiligt wenn Verliebte sich k ssen oder ein junger Mann seinem ersten Rendezvous entgegenfiebert Dieses unterhaltsame Buch wirft einen Blick hinter die molekularen Kulissen des aufregendsten aller Gef hle Die Liebe schl gt nicht nur Verliebte in ihren Bann Dass auch Chemiker manch faszinierende Erkenntnis zu diesem Ph nomen vermitteln k nnen belegt dieses Buch eindrucksvoll Ihren wissenschaftlichen Streifzug durch Amors Reich beginnt das Autorenduo das brigens auch ein Autorenpaar ist mit einer Geschichte Zwei Verliebte treffen sich wieder nachdem sie sich eine Weile nicht gesehen haben Was geschieht in ihren K pfen Wie lassen sich ihre Verhaltensweisen und Reaktionen chemisch beschreiben Im Anschluss widmen sich die beiden Wissenschaftsjournalisten ausf hrlich der Mentalit t der Liebe Sie gehen der Frage nach wie sie im menschlichen Gehirn repr sentiert wird Auch den Dialog der D fte entschl sseln sie und fragen nach den physiologischen Hintergr nden von Z rtlichkeit und Treue Sie erkl ren wie Molek le unsere Emotionen steuern und belegen dass sich Verliebte wirklich gut riechen k nnen Nicht nur Chemiker d rfte interessieren was das Buch ber die Wirkstoffe der Liebe zu berichten wei Mal ergr ndet es die Funktionsweise k rpereigener Opiate dann wenden sich die Autoren den Aphrodisiaka zu oder referieren den Stand der Dinge in Sachen Potenzmittel Die Fortsetzung der kleinen Liebesgeschichte vom Anfang sowie ein Sach und Personenregister beschlie en den Band Sandburgen, Staus und Seifenblasen Oliver Morsch,2012-03-08 Warum bilden sich Staus aus dem Nichts und l sen sich genauso unverhofft wieder auf Warum flie t Sand und kann dennoch hart wie Beton sein Die physikalischen Gesetzm igkeiten hinter diesen und anderen Ereignissen sind spannend zu entdecken **Nachrichten aus der Chemie** ,2002

Wissenschaftlicher Literaturanzeiger ,2001 Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen ,2002 *Bild der Wissenschaft* ,2002 Börsenblatt ,2006-09 **J.C.**

Poggendorffs biographisch-literarisches Handwörterbuch zur Geschichte der exacten Wissenschaften ... Johann Christian Poggendorff, 2002 *Die MenschenMacher* Hans Günter Gassen, Sabine Minol, 2006 Es ist wahrscheinlicher geworden dass wir zu MenschenMachern werden In ihrem Buch widmen sich Hans G nter Gassen und Sabine Minol diesem faszinierenden Thema das uns alle angeht Sie er rtern die Einzigartigkeit des Menschen und den Widerstreit von Sch pfung und Evolution Sie f hren ein in die fantastische Welt der Literatur von Shelleys Frankenstein bis zum Sandmann von E T A Hoffmann Sie berichten von Cyborgs und Robotern Der gro e Bogen endet mit der Darstellung aktueller Problematiken wie der des Klonens von Lebewesen aber auch der der Behandlung von Unfruchtbarkeit **Oxygen** Carl Djerassi, Roald Hoffmann, 2011-12-27 Das Bestreben etwas Neues als erster zu entdecken ist eine wichtige Motivation Die moralischen Konsequenzen werden in dem St ck Oxygen behandelt in dem es um die Entdeckung von Sauerstoff geht dem f r das Leben auf der Erde wichtigsten Element Im Zentrum des St ckes stehen chemische und politische Revolutionen sowie der Nobel Preis der 2001 zum 100 Mal vergeben wird Das St ck spielt 1777 und 2001 zur Auff hrung werden drei Schauspieler und drei Schauspielerinnen ben tigt die elf Personen darstellen Die Urauff hung wird im Fr hjahr 2001 in San Diego stattfinden die deutsche Premiere im September Die weltber hmten Autoren Carl Djerassi und Roald Hoffmann b rgen aufgrund ihrer Erfahrungen als Wissenschaftler Carl Djerassi ist bekannt als Vater der Pille und Roald Hoffmann erhielt 1982 den Nobelpreis f r Chemie und als Schriftsteller Djerassi schrieb mehrere erfolgreiche Romane Hoffmann viel beachtete Lyrik f r Kompetenz und Spannung *Biographisch-literarisches Handwörterbuch der exakten Naturwissenschaften* Johann Ch. Poggendorff, 1992-04-15 International Bibliography of Book Reviews of Scholarly Literature Chiefly in the Fields of Arts and Humanities and the Social Sciences , 2001 Börsenblatt für den deutschen Buchhandel , 2001 *Allgemeines Repertorium der Literatur für die Jahre 1785 bis [1800]* Johann Samuel Ersch, 1800 □□□□ , 2008

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