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When Don Devendorf and John Knepp got together to form Electramotive Engineering of El Segundo, California, little did they realise that they were setting in motion a train of events which would sooner, rather than later, bring to them and the mighty Nissan GTP cars that they promoted, developed and raced, no less than four IMSA Camel GT Championships. Here, for the first time, is the story of Nissan in racing from 1984 to 1993, the GTP era. The full story of Electramotive and NPTI is told, with interviews with Don Devendorf, John Knepp, Geoff Brabham, Trevor Harris, Kas Kastner, Ashley Page, and many other members of the crew that won the IMSA Camel GT Championship from 1988 to 1991. The story of the European Group C Nissans, using chassis from March and Lola, from 1985 to 1992 is also told, along with interviews from many of the drivers and technicians involved, such as Mark Blundell, Julian Bailey, Dave Price and Bob Bell. Abstract : Abstract: Evidence suggests short or long sleep duration is associated with a higher risk of diabetes. Using a large longitudinal data set spanning 2 years, we examined whether a change in sleep duration is associated with diabetes. Current analysis included 56, 588 participants who were free of diabetes during both 2006–2007 (exam1) and 2008–2009 (exam2). Sleep duration was categorized into 7 groups: ≤ 5.5 hours, 6.0 to 6.5 hours, 7.0 hours, 7.5 to 8.0 hours, ≥ 8.5 hours, decrease ≥ 2 hours, and increase ≥ 2 hours. Cox proportional hazards models were used to calculate hazard ratios (HRs) and their confidence intervals (CI) for diabetes, according to sleep duration. Compared to the reference group of persistent 7-h sleepers, participants who slept 7.5 to 8 hours per night (HR, 1.20; 95% CI, 1.02–1.40), ≥ 8.5 hours per night (HR, 1.37; 95% CI, 1.03–1.81) and an increase of ≥ 2 hours sleep per night (HR, 1.24; 95% CI, 1.05–1.48) were all associated with an increased risk of developing diabetes in analyses adjusted for age, sex, education level, income level, smoking status, drinking status, physical activity, BMI, snoring status, hypertension, hyperlipidemia, and family history of diabetes. The abovementioned associations of sleep duration and incident diabetes were only prominent among individuals aged Rice (*Oryza sativa* L.) is critically important for global food security and is a major crop in California, yet it has considerable water and carbon footprints. Alternative water management techniques, such as alternate wetting and drying (AWD), represent one of the most promising opportunities for reducing irrigation requirements and greenhouse gas (GHG) emissions from rice fields. A three-year field experiment was conducted to evaluate AWD for California rice production, specifically focusing on methane (CH₄) and nitrous oxide (N₂O) emissions, rice grain total arsenic (As) concentrations, yield response to nitrogen (N) rate, and rice grain yield. Grain yields (average = 10 Mg ha⁻¹) were similar or higher with AWD compared to the control and required similar or lower N rates to achieve these yields. Furthermore, AWD reduced the annual global warming potential (GWP) by 57–74% and milled grain total As by 59–65% in the

AWD treatments. These results show that AWD has the potential to mitigate GHG emissions and reduce rice grain total As concentrations without sacrificing grain yield, but the potential impact on irrigation water requirements is unclear due to a limited understanding of subsurface water flows (percolation and lateral seepage) in California rice fields, the reduction of which is expected to be responsible for any reduction in irrigation water requirements. To that end, percolation was directly measured in eight rice fields, lateral seepage was measured in six rice fields, and a complete water balance was developed for three rice fields. Lateral seepage rates varied over four orders of magnitude ($0.05\text{--}33.11\text{ cm}^2\text{ hr}^{-1}$ or $0.0011\text{--}1.05\text{ cm hr}^{-1}$), though even the highest rate measured was small compared to typical water inputs in California rice fields. Cumulative percolation over the growing season ranged from 0.04 to 6.95 cm season⁻¹. Combined percolation and lateral seepage calculated as the residual term of a water balance for three fields was 17.1 cm, compared to 4.4 cm based on direct measurements, corresponding to 13.2% and 3.4% of water inputs, respectively. No relationship between percolation or lateral seepage rates and soil properties was observed. Future research should examine the contribution of preferential flow pathways to the rice field water balance and focus on adapting AWD to the scale of commercial rice production in California.

This selection of Wilfred Owen's war poems is being published partly to provide an ideal edition of the poems for schools, who essentially read the war poems and need a short, thorough edition. It contains a new introduction by Jon Stallworthy, which is aimed at a general audience, but will be thorough and academic enough to work for schools as well. Constable have a similar edition planned, but Chatto's will be out first, and contains copyright material unavailable to other editions. This book has especially been republished to raise funds for the treatment of Felix White who suffers from Neuroblastoma, the second most common solid tumour in childhood which makes up 2 in 25 (8%) of the total number of children's cancers - and what better way to raise funds than to use a book which was prepared for youthful readers in particular. 1.05 of the net profit from the sale of this book will be donated to The Appeal for Felix. When schoolmastering in South Wales in the early 20th C., W. Jenkyn Thomas found that all the fairy books in the school library were in such constant demand that they rapidly wore out. He inquired whether the readers were familiar with the fairy mythology of their own country. With few exceptions, he found that they were ignorant of the Fair Family and other legends of Wales. After waiting in vain for an editor to produce a book of Welsh Fairy stories, he prepared this book, hoping that the Welsh variants of the universal folk-tales will also interest a wider circle of readers. In this volume you will read of "Elidyr's Sojourn in Fairy-Land," "Einion and the Lady of the Greenwood" and "The Drowning of the Bottom Hundred" plus ninety more. Here it may be remarked that the style of the originals has been left largely untouched. So be assured that in buying this book you have given hope. Hope that a little boy will receive the treatment he deserves. Then, feeling good with yourself, take some time out and put the 21st C. away for a while, settle down in a comfy chair and enjoy these Welsh tales of yesteryear." 'Wieland' is a disturbing tale of terror that involves spontaneous combustion, disembodied voices, religious mania and a gruesome murder. 'Memoirs of Carwen the Biloquist' is the unfinished sequel to 'Wieland'. Cocktail Hour Under the Tree of Forgetfulness tells the story of the author's mother, Nicola Fuller. Nicola Fuller and her husband were a glamorous and optimistic couple and East Africa lay before them with the promise of all its perfect light, even as the British Empire in which they both believed waned. They had everything, including two golden children - a girl and a boy. However, life became increasingly difficult and they moved to Rhodesia to work as farm managers. The previous farm manager had committed suicide. His ghost appeared at the foot of their bed and seemed to be trying to warn them of something. Shortly after this, one of their golden children died. Africa was no longer the playground of Nicola's childhood. They returned to England where the author was born before they returned to Rhodesia and to the civil war. The last part of the book sees the Fullers in their old age on a banana and fish farm in the Zambezi Valley. They had built their ramshackle dining room under the Tree of Forgetfulness. In local custom, this tree is the meeting place for villagers determined to resolve disputes. It is in the spirit of this Forgetfulness that Nicola finally forgot - but did not forgive - all her enemies including her daughter and the Apostle, a

squatter who has taken up in her bananas with his seven wives and forty-nine children. Funny, tragic, terrifying, exotic and utterly unself-conscious, this is a story of survival and madness, love and war, passion and compassion. Murderer, philanthropist, drug dealer, politician, devil, saint: many words have been used to describe Pablo Escobar, but one is irrefutable - legend. For the poor of Colombia, he was their Robin Hood, a man whose greatness lay not in his crimes, but in his charity; for the Colombian rich he was just a bloodthirsty gangster, a Bogie Man used to scare children in their beds; for the rest of the world flush with his imported cocaine, he was public enemy number one. During his reign as the world's most notorious outlaw, he ordered the murder of thousands - at one point even bombing a passenger jet - smuggled drugs into the US in mini-submarines inspired by Bond films, was elected to parliament, staged midnight escapes through the jungle from whole army battalions, built his own prison, consorted with presidents, controlled an estimated fortune of over \$20 billion, and for over 3 years outwitted the secret American forces sent to kill him. His ambition was as boundless as his violence, and neither was ever satisfied. This is the first major, and definitive, biography of this remarkable criminal life, told in jaw-dropping detail by the one man who, more than any other, can understand just how far he came and just how low he fell: his brother, Roberto Escobar. Rooted in the creative success of over 30 years of supermarket tabloid publishing, the Weekly World News has been the world's only reliable news source since 1979. The online hub www.weeklyworldnews.com is a leading entertainment news site. This dissertation contains three papers evaluating the utilization and effectiveness of osteoporosis medications using data on a 5% sample of Medicare beneficiaries in 2006-2009. The first paper assessed the completeness of Medicare Part D data on generic alendronate. The second paper identified anti-osteoporosis medication utilization patterns and factors associated with medication discontinuation. The third paper compared the effectiveness of osteoporosis medications for risk of fractures and mortality, with a focus on the recently introduced infusion and injection medications. In the first study, we identified beneficiaries highly adherent with branded alendronate during 1/1/06-2/6/07 ("2007 cohort") and highly adherent during 1/1/07-2/6/08 ("2008 cohort"), and found the proportion presumably discontinuing bisphosphonate therapy was 9% in the 2008 cohort compared to 8% in the 2007 cohort (adjusted hazard ratio (HR), 1.15; 95% confidence interval (CI), 1.05-1.26). These results suggest that the missing claims for generic alendronate in 2008 Medicare data are not substantial, and misclassification of alendronate exposure after the introduction of generic products is minimal. The second study identified individuals initiating bisphosphonate treatment and evaluated their medication status and switching pattern in the study period. Logistic regression analyses indicated that factors measured at the therapy initiation were weakly associated with discontinuation, regardless of the definition of discontinuation or length of follow-up. A case-crossover analysis using conditional logistic regression identified factors that precipitate discontinuation after 12 months of high adherence, including more physician visits, hospitalization, bone density testing, higher Charlson score, higher drug payments, less medications, and upper gastrointestinal problems. In the third study, to determine if fracture and mortality rates vary among patients initiating different anti-osteoporosis medications, we identified new users of intravenous (IV) zoledronic acid, oral bisphosphonates, IV ibandronate, calcitonin, raloxifene, or parathyroid hormone. Cox regression using IV zoledronic acid as the referent group, indicated positive associations of IV ibandronate with hip fracture (HR=2.37; 95% CI, 1.25-4.51), calcitonin with vertebral fracture (HR=1.59, 95% CI, 1.04-2.43), and calcitonin with mortality (HR=1.31; 95% CI, 1.02-1.68). In addition to specific findings, these studies collectively show that Medicare data provide valuable information on the utilization and effectiveness of medications for osteoporosis among older adults. The importance of oil in the world economy cannot be overstated, and methods for recovering oil will be the subject of much scientific and engineering research for many years to come. Even after the application of primary depletion and secondary recovery processes (usually waterflooding), much oil usually remains in a reservoir, and indeed in some heterogeneous reservoir systems as much as 70% of the original oil may remain. Thus, there is an enormous incentive for the development of improved or enhanced methods of oil recovery, aimed at recovering some portion of

this remain)g oil. The techniques used range from 'improved' secondary flooding methods (including polymer and certain gas injection processes) through to 'enhanced' or 'tertiary' methods such as chemical (surfactant, caustic, foam), gas miscible (carbon dioxide, gas reinjection) and thermal (steam soak and drive, in-situ combustion). The distinction between the classification of the methods usually refers to the target oil that the process seeks to recover. That is, in 'improved' recovery we are usually aiming to increase the oil sweep efficiency, whereas in 'tertiary' recovery we aim to mobilise and recover residual or capillary trapped oil. There are a few books and collections of articles which give general overviews of improved and enhanced oil recovery methods. However, for each recovery method, there is such a wide range of interconnected issues concerning the chemistry, physics and fluid mechanics of flow in porous media, that rarely are these adequately reviewed.

Throughout the 1990s, Deric Longden has shared his life with Aileen Armitage and four cats: Thermal, Tigger, Frink, and shabby old Arthur. And the cats have found that sharing a life with Aileen can be a very painful business. She hardly ever trips over them these days, but they are always in danger of being mistaken for a cardigan or inadvertently locked away in the basement. Ever since Thermal came in from the cold to enter his life, Deric has seen his world increasingly taken over by cats. What with planning their menus, entertaining their friends, listening to their worries, and observing their adventures, he has little time left over for his professional life as a writer. But there are rich rewards. One way or another, the cats that Deric and Aileen share their lives with are an endless source of interest and laughter. Few writers have found so much enjoyment in the company of cats, and none has written better about their charm and the fascinating range of their personalities. Jane Austen's beloved and subtly subversive final novel of romantic tension and second chances. Now a motion picture from Netflix starring Dakota Johnson and Henry Golding, and a TikTok Book Club Pick. At twenty-seven, Anne Elliot is no longer young and has few romantic prospects. Eight years earlier, she had been persuaded by her friend Lady Russell to break off her engagement to Frederick Wentworth, a handsome naval captain with neither fortune nor rank. What happens when they encounter each other again is movingly told in Jane Austen's last completed novel. Set in the fashionable societies of Lyme Regis and Bath, Persuasion is a brilliant satire of vanity and pretension, but, above all, it is a love story tinged with the heartache of missed opportunities. For more than seventy years, Penguin has been the leading publisher of classic literature in the English-speaking world. With more than 1,700 titles, Penguin Classics represents a global bookshelf of the best works throughout history and across genres and disciplines. Readers trust the series to provide authoritative texts enhanced by introductions and notes by distinguished scholars and contemporary authors, as well as up-to-date translations by award-winning translators.

Moderate-intensity continuous training (MICT) continues to be the staple of prenatal physical activity research. The glucose lowering effects of MICT are well established with low risk of post-exercise hypoglycemia, however there is a large research gap concerning maternal response to short bursts of vigorous-intensities. Despite the growing number of individuals continue to participate in high-intensity interval training (HIIT) following conception, pregnant individuals glycemic response to HIIT has only been reported once with pre to post exercise capillary glucose samples. Since glucose is essential to supporting the maternal physiological adaptations to prepare the body for the demands of pregnancy and assist in fetal-placental growth, it is imperative to further investigate the glucose lowering effects of HIIT. Furthermore, the vast majority of vigorous-intensity research with pregnant populations has not exceeded 90% maternal HRmax and the effects on maternal glucose are essentially unknown. Therefore we sought to investigate maternal glycemic response during and following an acute bout of HIIT and MICT in pregnant individuals over a 48 hour period. We recruited 24 pregnant females (27.8 ± 4.7 weeks of gestation, 31.5 ± 4.1 years of age) with a singleton pregnancy to participate in this randomized cross over design study. Each participant wore a flash glucose monitor and accelerometer, as well as kept a written food log, for seven days to collect 24 and 48 hour glucose values, physical activity patterns, and caloric intake. The participants engaged in two acute bouts of exercise (i.e., one HIIT and MICT session) in random order separated by 48 hours. The HIIT protocol consisted of 10 one minute intervals of high-intensity work (i.e., >

90% HRmax) interspersed with nine one minute intervals of active recovery (19 minutes total). The MICT protocol consisted of 30 minutes of moderate- intensity cycling (i.e., 64 - 76% HRmax). Post-exercise participants were asked to report their perceived enjoyment and overall preference for HIIT or MICT. During the HIIT protocol, participants achieved peak heart rates of 159 - 185 bpm (85 - 97% of HRmax) with an average heart rate throughout the HIIT session (155 ± 8 bpm; $82 \pm 4\%$ HRmax) being significantly higher than during MICT (140 ± 8 bpm; $74 \pm 4\%$ HRmax; $P = 0.0001$). The change in glucose from pre to post exercise were not significantly different between conditions (HIIT: 0.62 ± 1.00 mmol/L; MICT: 0.81 ± 1.05 mmol/L; $P = 0.30$) with the exception that fewer individuals experienced post- exercise hypoglycemia after HIIT compared to MICT (8% versus 33% respectively; $P = 0.04$). All other glucose variables were not different between exercise protocols including mean 24 and 48 hour glucose, or time spent

Four men find themselves inextricably bound together by their past histories. The aged Judge Clane dreams of resurrecting the confederacy, while his grandson, Jester, is involuntarily drawn to Sherman, a volatile black orphan who feels the sharp sting of racial injustice, especially when he finds out the truth about his parentage. This 4th edition is an essential scientific & clinical building block for understanding the etiology & treatment of teeth with pulpal & periapical diseases. You'll easily understand & learn procedures through step-by-step explanations accompanied by illustrations, as well as video clips included on CD. What's almost as good as going fishing? Hearing, telling, and swapping great fish stories. Shaun Morey is a fisherman, a connoisseur of fish stories, and a journalist with a novelist's eye (and vice versa) in this collection of over 100 incredible (and true!) fishing stories. Here are Remarkable Catches—like the time Billy Sandifer caught a 1,000-pound tiger shark in the surf (he released it after nabbing a souvenir tooth). Grueling Battles—like Bob Ploeger's record-breaking 37-hour fight with a Pacific salmon. Hilarious Feats of Bravery, like the exploits of Matt Watson, who leapt out of a helicopter to land on the back of a marlin. And, in what can only be considered poetic justice, Shocking Acts of Fish Aggression, like Mitchell Lee Franklin's visit to the emergency room with a 5-pound catfish attached to his chest via an impaled dorsal fin. Includes illustrations, photos, and links to videos on the author's website. It's finally here Six years and almost 1000 pages have all led to this epic finale With six of Ramona's seven evil exes dispatched, it should be time for Scott Pilgrim to face Gideon Graves, the biggest and baddest of her former beaux. But didn't Ramona take off at the end of Book 5? Shouldn't that let Scott off the hook? In its 114th year, Billboard remains the world's premier weekly music publication and a diverse digital, events, brand, content and data licensing platform. Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music, video, gaming, media, digital and mobile entertainment issues and trends. Frank Waters has written a book about the Golden Age of Show Jumping. Starting as a groom, and jumper, he switched to announcing. This technical report covers all aspects of the uses of precast concrete piles - design, manufacture, transport, handling, pitching and driving. Both reinforced and prestressed concrete piles are dealt with and attention is paid to the use of both plan piles and those with enlarged toes. Although the report is a translation of parts of a set of three volumes produced in the Netherlands, those parts reproduced are internationally applicable. Special sections deal with the effects of pile driving on adjacent buildings and their occupants - both as regards vibration and noise. For more than five decades, Sears and Zemansky's College Physics has provided the most reliable foundation of physics education for students around the world. The Ninth Edition continues that tradition with new features that directly address the demands on today's student and today's classroom. A broad and thorough introduction to physics, this new edition maintains its highly respected, traditional approach while implementing some new solutions to student difficulties. Many ideas stemming from educational research help students develop greater confidence in solving problems, deepen conceptual understanding, and strengthen quantitative-reasoning skills, while helping them connect what they learn with their other courses and the changing world around them. Math review has been expanded to encompass a full chapter, complete with end-of-chapter questions, and in each chapter biomedical applications and problems have been added along with a set of MCAT-style passage problems. Media resources have been strengthened and linked to the Pearson eText,

MasteringPhysics®, and much more. This package contains: College Physics, Ninth Edition Abstract: Background: Predictors and clinical outcomes of stent thrombosis (ST) in women have not been well investigated. Present study aimed to identify predictors of definite ST and its impact on mortality in women undergoing percutaneous coronary intervention (PCI). Methods: Patient-level data of women enrolled in 26 randomized trials of DES was pooled. The study population was stratified based on the presence or absence of definite ST. Cox proportional hazards models were used to determine the predictors of definite ST. To analyze the temporal impact of definite ST on mortality Cox regression with ST entered as time-updated covariate was used. Results: Of 11, 557 patients undergoing PCI with stent implantation, definite ST occurred in 105 patients (0.9%) over median follow-up of 3 years. Independent predictors of ST were age (HR 1.03 per year decrease, 95% CI 1.00-1.05; $p = 0.041$), diabetes mellitus (HR 2.25, 95% CI 1.27-3.99; $p = 0.005$), non-ST-segment elevation myocardial infarction (NSTEMI) at presentation (HR 1.97, 95% CI 1.04-3.75; $p = 0.037$) and stent diameter (HR 3.76 per mm decrease, 95% CI 1.66-8.53; $p = 0.002$). Compared to women without ST, the adjusted hazard ratios for mortality in the first 7 days, 8-30 days, and beyond 30 days from ST were 115.81 (95% CI 68.96-194.47); 37.44 (95% CI 17.31-80.98); 3.54 (95% CI 2.20-5.69), respectively. Conclusions: In this large-scale pooled analysis of women, definite ST was uncommon yet associated with substantial mortality risk, which peaked early and rapidly attenuated over time. Younger age, diabetes, NSTEMI and stent diameter were found to be predictors of ST. Highlights: Predictors of stent thrombosis in women are younger age, diabetes mellitus, NSTEMI and smaller stent diameter. Stent thrombosis is uncommon, however it is associated with a substantial mortality risk. The mortality risk is very high in the first 7 days, but attenuated rapidly after these 7 days. Globally, over 3.3 million children are infected with HIV. Despite significant progress, there is a need to better understand mechanisms for transmission and progression of HIV in children. In addition, among children receiving HIV care, it is important to determine the best ways to inform them about their diagnosis. Consistent with the University of Washington Public Health Genetics PhD requirement of including both genetic epidemiology and social/cultural domains, this PhD dissertation addresses two projects of relevance to children with HIV. The aim of the first project is to determine the role of selected genetic mechanisms influencing pediatric HIV acquisition and progression. The aim of the second project is to determine how, when and what healthcare providers decide to tell HIV-infected children about their diagnosis. For project 1, we used genetic epidemiology methods to evaluate the role of variations in innate immune system genes on infant HIV acquisition and progression in a Kenyan mother-to-child transmission (MTCT) cohort. Specifically, we genotyped infants from this cohort for 6 candidate and 118 haplotype-tagging polymorphisms in TLRs 2, 3, 4, 7, 8, and 9, MyD88 and TIRAP, and 144 ancestral informative markers. Cox proportional hazards and linear regression were performed to assess TLR polymorphism associations with HIV acquisition, peak HIV RNA levels, and infant mortality. Sex-stratified analyses of TLR7 and TLR8 were conducted due to their X-chromosome location and Bonferroni methods were used to account for multiple comparisons. For project 2, we used qualitative methods to analyze transcripts from semi-structured interviews conducted with 21 healthcare providers caring for HIV-infected children from 5 clinics in Kenya. Interview transcripts were systematically coded and conceptually analyzed using modified grounded theory and directed content analysis approaches. Resulting themes were identified related to the disclosure processes, ethical and practical rationale for different approaches, and challenges or barriers to disclosure. For project 1, we found that TLR variants influenced HIV acquisition and progression. Infants with the TLR9 1635A (rs352140) variant were more likely to acquire HIV by 1 month of age (HR=1.81, 95% CI: 1.05, 3.14; $p=0.033$) and 12 months of age (HR=1.62, 95% CI: 1.01, 2.60; $p=0.044$). We also found that among 56 infants infected by 1 month of age, the TLR9 1635A allele was associated with a decrease in peak viral load (-0.58 log₁₀ c/ml, 95% CI: -0.95, -0.22; $p=0.002$) whereas female infants with the TLR8 1G (rs3764880) variant had increased peak viral load (0.78 log₁₀ c/ml, 95% CI: 0.35, 1.21; p On Site Inspection is the final measure for verifying compliance of Member States with the Comprehensive Nuclear-Test-Ban Treaty. In order to enable the use of ³⁷Ar as a radiotracer

for On Site Inspection, the sources of radioargon background must be characterized and quantified. A radiation transport model of the University of Texas at Austin Nuclear Engineering Teaching Laboratory (NETL) TRIGA reactor was developed to simulate the neutron flux in various regions of the reactor. An activation and depletion code was written to calculate production of ^{37}Ar in the facility based on the results of the radiation transport model. Results showed ^{37}Ar production rates of $(6.567 \pm 0.31) \times 10^2 \text{ Bq} \cdot \text{kWh}^{-1}$ in the reactor pool and the air-filled irradiation facilities, and $(5.811 \pm 0.40) \times 10^4 \text{ Bq} \cdot \text{kWh}^{-1}$ in the biological shield. Although ^{40}Ca activation in the biological shield was found to dominate the total radioargon inventory, the contribution to the effluent release rate would be diminished by the immobility of Ar generated in the concrete matrix and the long diffusion path of mobile radioargon. Diffusion of radioargon out of the reactor pool was found to limit the release rate but would not significantly affect the integrated release activity. The integrated ^{37}Ar release for an 8 hour operation at 950 kW was calculated to be $(1.05 \pm 0.8) \times 10^7 \text{ Bq}$, with pool emissions continuing for days and biological shield emissions continuing for tens of days following the operation. Sensitivity analyses showed that estimates for the time-dependent concentrations of ^{37}Ar in the NETL TRIGA could be made with the calculated buildup coefficients or through analytical solution of the activation equations for only $(n, [\gamma])$ reactions in stable argon or $(n, [\alpha])$ reactions in ^{40}Ca . Analyses also indicated that, for a generalized system, the integrated thermal flux can be used to calculate the buildup due to air activation and the integrated fast flux can be used to calculate the buildup due to calcium activation. Based on the results of the NETL TRIGA, an estimate of the global research reactor source term for ^{37}Ar and an estimate of ground-level ^{37}Ar concentrations near a facility were produced.

Howard York - self-made man and founder of London's extraordinary Hotel Alpha - is one of those people who makes you feel that anything is possible. He is idolized by his blind adopted son, Chas, and Graham, the inimitable concierge, whose lives revolve around the Alpha. But when two mysterious disappearances raise questions that no one seems willing to answer, Chas and Graham must ask themselves whether Howard's vision of the perfect hotel has been built on secrets as well as dreams . . . Captivating, brilliant and full of surprises, Hotel Alpha is an ingenious novel about the incidental and life-changing ways in which we connect with one another. You can discover more about the hotel and its inhabitants in 100 extra stories at www.hotelalphastories.com.

Three saturation dive profiles (11 separate dives) utilizing a total of 35 human subjects were completed. They were AIRSAT-1 (2.82 ATA air saturation, five 8-hour excursions to 4.03 ATA) , AIRSAT-2 (2.82 ATA air saturation, six 2-hour excursions to 5.55 ATA), and AIRSAT-3 (0.3 ATA 0(2) at 5 ATA, three 5-hour air excursions to 7 ATA). AIRSAT-3 involved a 24 hour exposure to 5 ATA air prior to decompression. Pulmonary function was measured in all subjects throughout the exposures. Signs and symptoms of pulmonary oxygen toxicity and significant decreases in forced vital capacity and single breath diffusing capacity were observed. Marked individual variability was apparent in all exposures. Air at 2.82 ATA (60 fswg, 0.59 ATA 0(2)) is very close to the oxygen toxicity threshold, and air at 5.00 ATA (132 fswg, 1.05 ATA 0(2)) is well beyond it. In Canada, an estimated 1.2 million children and youth are affected by mental illness, while one third experience weekly symptoms of mental health problems. Research indicates physical activity (PA), sedentary behaviour (SB), sleep, and diet are each independently associated with indicators of mental health among children and youth; however, most research examining the relationships between PA, SB, sleep and diet with mental health has been conducted in isolation even though health is dependent on the combination of behaviours. The Canadian 24-Hour Movement Guidelines for Children and Youth demand a rethink of traditional surveillance measures that have focused on isolated behaviours, and recommend those aged 5-to-17 years should sweat (moderate-to-vigorous-intensity PA; MVPA), step (light-intensity PA;LPA), sleep, and sit each day. Children's movement and dietary behaviours are inter-related; however, there is a paucity of research simultaneously exploring 24-hour movement, diet, and mental health. Therefore, the purpose of this study was to investigate the associations between objectively measured 24-hour movement behaviours, healthy and unhealthy dietary patterns, and indicators of mental health among a sample of children and youth living in Northeastern Ontario. The current research

incorporated elements of community-based participatory research, and used a convenience sample of children and youth (n = 58, 56.9% female) in grades 5 to 8 (Mage = 11.81 years; SD = 1.05) from one consenting school in Northeastern Ontario. To assess 24-hour movement, participants wore the GENEActiv Original accelerometer on their non-dominant wrist for 7 consecutive days. Movement behaviour variables included minimal-intensity PA(min PA; a correlate of SB), LPA, MVPA, and sleep. Health and unhealthy dietary pattern scores were derived from a participant-completed food frequency questionnaire. The mental health indicator was the total difficulty score (TDS) derived from the Strengths and Difficulties Questionnaire. Pearson bivariate correlation analyses were performed between average time in light intensity PA, moderate-to-vigorous-intensity PA, min PA, sleep, as well as unhealthy and healthy diet scores, with TDS. Correlation analyses revealed unhealthy diet scores were significantly associated with TDS, $r = 0.486$, $p < 0.001$. LIPIDAT is a convenient compilation of thermodynamic data and bibliographic information on lipids. Over 11,000 records in 15 information fields are provided. The book presents tabulations of all known mesomorphic and polymorphic phase transition types, temperatures, and enthalpies for synthetic and biologically derived lipids in dry, partially hydrated, and fully hydrated states. It also includes the effect of pH, protein, drugs, salt, and metal ion concentration on these thermodynamic values. Methods used in making the measurements and the experimental conditions are reported. Bibliographic information includes a complete literature reference and list of authors. The book will be an indispensable reference for biophysicists, chemical engineers, pharmaceutical and cosmetic researchers, dermatologists, nutritionists, biochemists, physiologists, food scientists, and fats and oils chemists.

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