

## **Buzzerfest VII: 15 Minutes to Wapner**

Edited by Chris Frankel

Packet by

Packet by Rutgers-Newark (Richard Emanuel, Shah Ali), Mike Ruby of NYU, Jeff Bennett of MSU, Berkeley (Seth Teitler), Texas A&M (Chris Romero)

### Tossups

1. Its existence was first suggested in 1930 by Frederik Leonard, its first identified component was nicknamed "Smiley," and its alphanumeric designation was appropriate for future components with the name Cubewano. Believed to compose the area between 30 and 50 astronomical units away from the sun, in addition to recently discovered Ixion and Quaoar, this region includes the moon Charon and the planet Pluto. FTP, name this extension of our solar system beyond the orbit of Neptune which should not be confused with the Oort Cloud.

ANSWER: Edgeworth-**Kuiper** belt

2. The leader of this group was inspired by a trip to Haarlem, where he painted the Franz Hals-inspired *Laughing Child*. *Chez Mouquin*, *Hester Street*, and *Dutch Girl in White* were among the works of this group, whose members were influenced by Thomas Anschutz, but did not include Maurice\* Prendergast or Ernest Lawson. Another member, who painted *Cliff Dwellers* and *Dempsey and Firpo*, was known for his graphic depictions of boxing matches. FTP, name this American artistic group whose members included Robert Henri and George Bellows, known for its gritty depictions of urban life.

ANSWER: **Ashcan** School (accept "The **Eight**" until the \*, as Prendergast and Lawson were part of The Eight, but NOT the Ashcan School)

3. It began with a proposal for the creation of a 48 member Grand Council to be appointed by local representatives and headed by a royally mandated President General. Duties of the Grand Council including raising money for soldiers and forts, levying duties and taxes, making regulations and laws for newly settled lands, and overseeing treaties and trade with Indians. Headed by Benjamin Franklin, FTP, what was this 1754 proposal presented to the American colonies in an upstate New York city?

ANSWER: **Albany Plan** of Union or **Albany Congress**

4. At this novel's end, the narrator, a former English professor, decides to take a job in Africa at the urging of his alcoholic wife, who was impregnated by his own brother. The hope of the couple is to escape their shame for their other child, a retarded boy modeled after the author's son, Hikari. Also haunting the narrator throughout the novel is the disturbing image of his best friend, who killed himself by stripping naked, painting his face red, shoving a cucumber up his ass, and hanging himself. FTP, name this novel about the Nedokoro brothers, Takashi and Mitsu, written by Kenzaburo Oe.

ANSWER: *The **Silent Cry***

5. The pyrolitic variety exhibits very strong diamagnetism, and is used in the pebbles of pebble bed nuclear reactors. In shock-metamorphosed environments, a rare polymorph known as chaoite can be found. Like the micas, it exhibits perfect planar cleavage due to weak interactions between sheets of fused hexagonal rings. Thermodynamically more stable at standard conditions than diamond and used industrially as a dry lubricant, FTP what is this allotrope of carbon?

ANSWER: **graphite**

6. Solos for the viola, celeste, cello, and double bass all appear in the second movement of this work, simply titled "Song" or "Romance." The next movement follows the tempo "Allegro Fastoso," introduces a saxophone theme to be repeated in the last movement, and features a fanfare of winds and brass to show the celebration of the title character's wedding, which continues in the "Troika" movement. Written as the score for a film based on a Yuri Tynyanov story about a fictional military officer, FTP, what is this five-movement orchestral suite by Sergei Prokofiev?

ANSWER: **Lieutenant Kije Suite**

7. Among his most famous writings are *On the Christian Faith*, written at the request of Gratian, and *On the Duties of the Clergy*, which shows the influence of Cicero in his works. Nicknamed the "Honey-Tongued Doctor," he is remembered as the patron saint of candlemakers, wax sculptors, and beekeepers. Quoted as saying, "the Emperor is in the Church, not above it," he excommunicated Theodosius I for the massacre at Salonica and refused the demands of Valentinian II to cede a church to the Arians during his tenure as bishop. A major influence on the author of the *Confessions*, FTP, who was this saint from Milan best known for converting St. Augustine?

ANSWER: Ambrose

8. Responsible for the destruction of Verulamium and Colchester, this leader is said to have sacrificed hundreds to deity Andraste. Allegedly defeated at Kings Cross by Suetonius Paullinus, , this leader is commemorated with a statue next to Westminster Bridge. Referred to by the Celtic monk Gildas as a "treacherous lioness," FTP, who is this wife of Prasutagus and head of the Iceni tribe who, in AD 61, led an uprising against Roman forces in Britain?

ANSWER: Boudicca or Boadicea

9. This poem's first stanza includes a blason in which the poet reserves the last age to show the subject's heart, and the poet declares himself willing to wait from "ten years before the Flood...Till the Conversion of the Jews." The poet's "vegetable love should grow/ Vaster than empires, and more slow," but "yonder all before us lie/ Deserts of vast eternity." Concluding, "Thus, though we cannot make our sun/ Stand still, yet we will make him run," this is, FTP, what poem that begins, "Had we but world and time," and was written by Andrew Marvell?

ANSWER: "To His Coy Mistress"

10. They have *very* peculiar habits, and lead a tragic life, eventually dying of a certain kind of fever. They go in a hole, then behave like pigs and get stuck, according to the young man who converses about them and Sharon Lipschitz while taking Sybil Carpenter out on a float to see them. After being splashed by a wave, Sybil claims she saw one of these title creatures eating six of its namesake fruit. FTP, Seymour Glass goes back to the hotel and shoots himself after saying it's a perfect day for these aquatic creatures in a J.D. Salinger story.

ANSWER: bananafish

11. When religious leaders used his texts to argue contrasting opinions over the nature of the spirit in the afterlife, he tried to settle the dispute by writing the *Treatise on Resurrection*. In addition to an essay on hemorrhoids, he wrote *Commentary on the Aphorisms of Hippocrates*, which criticized Hippocrates and Galen, and was one of many works inspired by his career as a physician. Also the author of *Commentary on the Mishnah*, this is, FTP, what medieval Jewish philosopher who wrote the *Guide for the Perplexed*?

ANSWER: Moses ben Maimon or Maimonides

12. It contains a region consisting of dark, electron-rich filaments called the *pars fibrosa*, as well a center for maturing nucleoproteins called the *pars granulosa*. Only found in eukaryotes, it uses outside pores to transmit RNA through the cytoplasm, primarily consists of chromatin, and serves as the site for the synthesis of ribosomes. FTP, name this small, round cell structure located within the nucleus.

ANSWER: nucleolus

13. He only played 7 games in the 2000-2001 season, the result of a foot injury that had sidelined him for stints in his first two years in the league, before he was traded to the Heat. After a three team trade involving him, Brian Skinner, Chris Gatling, and Don McLean, he played all 82 games in 2001-2002, averaging 11.7 points per game. Though he put up 20.6 points per game the next season, he gained a reputation for selfishness, which stood out this year when he tried to shoot on his own basket in the hopes of getting a rebound for a triple double. FTP, name this guard who was traded from the Cleveland Cavaliers to the Boston Celtics in the 2003-2004 NBA season.

ANSWER: Ricky Davis

14. The delegates of its six chambers convened as the Lords Seventeen. Its activities resulted in the torture and execution of several Englishmen in the 1623 Amboyna Massacre. For over 200 years, its outpost at

Dejima was the only place where Japan traded with foreigners. Malacca and Ceylon were captured from the Portuguese during the governor-generalship of Anton van Diemen. Granted a monopoly between the Cape of Good Hope and the Strait of Magellan, FTP, what is this company which made its headquarters in Batavia?

ANSWER: Dutch East India Company or Vereenigde Oostindische Compagnie or VOC or United East Indies Company

15. He used the term "dynamic density" as a key element in the transition from mechanical to organic solidarity. One biographer, Steven Lukes, stressed his belief in sociological dichotomies such that in the nature of religion, the sacred and the profane, which was explored in the work *Elementary Forms of Religious Life*. Author of the works *The Rules of Sociological Method* and *The Division of Labor in Society*, FTP, who is this French sociologist who classified into four categories the types of suicide?

ANSWER: Emile Durkheim

16. On its website, this organization proudly celebrates its 40 years of existence and calls upon the US to legalize narcotics. It is governed by a secretariat and a senior military commander, respectively called Tirofijo and Mono Jojoy. In 1998 it kidnapped presidential candidate Ingrid Betancourt, which led to the calling off of peace talks by its nation's president Andres Pastrana. Now controlling 40% of its nation's land, mostly at the base of the Andes, FTP this is what military wing of the Colombian Communist Party identified by a four letter acronym?

ANSWER: Fuerzas Armadas Revolucionarias de Colombia or FARC

17. The Hellmann-Feynman theorem states that the force on a particle is given by the expectation value of the gradient of this operator. The variational principle uses its expectation value with any normalized wavefunction. If an operator commutes with it, then the expectation value of that operator is time-independent, and if a non-trivial unitary operator commutes with it, then there is a degeneracy with multiple states at the same energy. Solutions of the time-independent Schrödinger equation are eigenstates of, FTP, what operator representing total energy?

ANSWER: Hamiltonian

18. Inspired as a reaction to a revolt in Hungary, it sought to curb the threat of angry dock workers and other labor activists, most of whom were suppressed and sent to labor camps after this campaign. 22 years later, it was echoed in the Democracy Wall movement, which itself was used as a ploy to wrest Hua Guofeng from power. Announced a year before the Great Leap Forward, it turned into a ruse to identify and round up dissenters and was followed by an Anti-Rightist purge by the CCP. FTP, name this 1956-1957 period of Maoist China that sought to encourage criticism of the government and the blossoming of intellectualism.

ANSWER: Hundred Flowers Movement

19. At the end of this play, worries about an ailing 87 year old house servant are assuaged by reassurance that he is at the hospital; however Firs accidentally has been forgotten and locked inside the house to die. Meanwhile, Dunyasha the maid, cries after Yasha leaves, and Varya, the adopted daughter of the debt-ridden lead female character, also cries because Lopakhin leaves without proposing to her. FTP, name this drama about the loss of Mrs. Ranevsky's titular estate, a play by Anton Chekhov.

ANSWER: *The* Cherry Orchard

20. On his return home, he passed through Thrace and engaged in battle with King Harpalycus until the king's daughter intervened. The son of Deidamia, he was recruited from his home in Scyros to fight in the Trojan War and later went with Odysseus to Lemnos to bring Philoctetes into the war effort. He is said to be the father of Olympias, mother of Alexander the Great, and he had a son, Molossus, with his slave, Andromache. Killed during a dispute over Hermione with Orestes, this is FTP, what king of Epirus, the son of Achilles and killer of Priam?

ANSWER: Neoptolemus or Pyrrhus

21. Beginning in some non-American churches on either St. Martin's or St. Andrew's feast day, this liturgical season was first recognized by the 524 Synod of Lerida. During this season, the celebrant

typically wears purple vestments and one symbol is an evergreen wreath which integrates four candles: 3 violet and 1 rose. Considered since the sixth century as beginning of the ecclesiastical year and deriving its name from the Latin for "coming of the Savior," FTP name this Christian season typically celebrated during the four weeks prior to Christmas?

ANSWER: **Advent**

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### **Bonuses**

1. Answer these questions about a common geographical name, FTPE.

(10) This name currently describes a Balkan country best known for King Zog, pyramid schemes, and a close alliance with the People's Republic of China during the Cold War.

ANSWER: **Albania**

(10) Greeks and Romans once referred to the northern part of this current Caucasian country as Albania. It is located on the western shore of the Caspian Sea, bordered by Russia, Georgia, Armenia, and Iran.

ANSWER: **Azerbaijan**

(10) Albania also once referred to the southern region of this republic in the Russian Federation, located east of Chechnya and with its capital at Makhachkala.

ANSWER: **Dagestan**

2. Answer these related questions about electromagnetism, FTPE:

(10) These two functions can be used to generate the electric and magnetic field. The magnetic field is the curl of the vector one.

ANSWER: **potential** functions

(10) These are the transformations on the scalar and vector potentials that leave the electric and magnetic field the same.

ANSWER: **gauge** transformation.

(10) This is the gauge used to simplify the wave equation. It is named after a Danish physicist, not a Dutch one.

ANSWER: **Lorenz** gauge

3. Answer the following about a certain religion, FTSNOP.

(5) Its exact origins are unknown, but this religion can be traced back to the 18th and 19th Yoruba people. It became popular in the Caribbean with the importation of African slaves, especially in Haiti.

ANSWER: **vodun** or **voudou** or **voodoo**

(10) Considered to be the souls who once led extraordinary lives, these spirits govern a wide range of natural or spiritual phenomena. The rada are the benevolent ones, while the petro are the darker and more chaotic ones.

ANSWER: **loas**

(15) The chief god of traditional voodoo, he is "remote and unknowable" and never involves himself in mortal affairs. He employed Obatala to oversee creation, but later banished him for challenging his authority.

ANSWER: **Olorun** or **Bondye**

4. Name the following fruity British novels, all of which were written by women authors, FTPE.

(10) The central character in this novel's titular town is Dorothea Brooke, who is stuck in an unhappy marriage to Edward Casaubon and falls in love with Will Ladislav instead.

ANSWER: **Middlemarch**

(10) The title character narrates the story of her time as a governess to the Bloomfield and Murray families, as well as her developing relationship with the man she eventually marries, a priest named Edward Weston.

ANSWER: **Agnes Grey**

(10) Clarissa is the title character of this Virginia Woolf novel, who encounters her old love Peter Walsh. In a parallel story, Septimus Smith tries to cope with his World War I battle scars, then ultimately kills himself.

ANSWER: **Mrs. Dalloway**

5. Name these American rebellions from descriptions, FTPE.

(10) This rebellion was a reaction to a lack of voting rights provisions in the Rhode Island state constitution.

ANSWER: Dorr's rebellion

(10) Occurring in 1689 as a reaction to the Glorious Revolution, it saw a German trader depose Francis Nicholson and attempt to replace him as governor of New York.

ANSWER: Leisler's rebellion

(10) The leader of this colonial rebellion was unhappy with Governor Berkeley's handling of Indian affairs.

ANSWER: Bacon's rebellion

6. Name these special types of topological spaces, FTPE.

(10) Every Cauchy sequence in the space converges to a limit in the space.

ANSWER: complete

(10) Every open cover reduces to a finite subcover. For subspaces of a Euclidean space, this is equivalent to being closed and bounded.

ANSWER: compact

(10) Any two distinct points have disjoint neighborhoods.

ANSWER: Hausdorff or T<sub>2</sub>

7. Stuff about a school of psychology, FTPE.

(10) This founder of Gestalt studied the effect of stroboscopic pictures with his assistants Wolfgang Köhler and Kurt Koffka.

ANSWER: Max Wertheimer

(10) Wertheimer's studies led him to the formulation of this principle stating that alternating still images can give the illusion of motion.

ANSWER: phi phenomenon

(10) Gestalt claims that people, on interpreting a picture, differentiate between these two elements, as in the classic case of a black-and-white picture interpreted either as a candlestick or two faces. Name both for 10, all or nothing.

ANSWER: figure and ground

8. Name these literary characters from clues for 15. If you can't do that, you'll get a chance to identify the works they appear in for 5 points.

(Moderator: if the team gets a 15 part correct, they are not eligible for a chance to name the respective novel. If the team gets both, skip the third prompt entirely. Also, for this bonus, do not read answers until the end.)

(15) Instead of marrying her suitor, who later marries Dinah Morris, she gets knocked up by Arthur Donnithorne, has a kid, and leaves it in the country side to die.

ANSWER: Hetty Sorrel

(15) This son of a carpenter seduces Mathilde de la Mole, but is not allowed to marry her and gain his title, due to a scandalous letter from a past conquest, Mme. de Renal.

ANSWER: Julien Sorel

(5,5) Hetty Sorrel appears in a George Eliot novel, whose title character is the carpenter that tried to woo her; while Julien Sorel is the protagonist of a Stendhal novel. Name them for 5 points a piece.

ANSWER: Adam Bede and The Red and the Black or Le Rouge et Le Noir

9. Answer the following about works of classical music written with children in mind, FTPE.

(10) This Benjamin Britten work was written for a film designed to educate kids about the various instruments in an ensemble.

ANSWER: A Young Person's Guide to the Orchestra

(10) This Bela Bartok work consists of 153 short piano pieces of progressing difficulty, and was written as a way to help his son learn piano.

ANSWER: Mikrokosmos

(10) This German composer compiled a Little Notebook of favorite pieces for his second wife Anna Magdalena and the family children.

ANSWER: Johann Sebastian Bach

10. Arabic dynasties from descriptions, FTPE:

(10) They rose to power in Persia after defeating the Parthians in 228 AD. Their decline in 651 AD was precipitated by war with the Byzantines and the spread of Islam.

ANSWER: Sassanids or Sassanians

(10) This caliphate reigned in North Africa from the 10th to 12th Centuries AD, taking their name from a daughter of Mohammed.

ANSWER: Fatimids

(10) Saladin founded this dynasty in 1171 after deposing the last Fatimid caliph.

ANSWER: Ayyubids

11. Answer these questions about a modern philosophical concept, FTPE.

(10) Its eponymous object refers to a state in which policy makers are only aware of their original position in society and do not know how the policy they create will affect them. Under it, only then can a truly fair policy be devised.

ANSWER: veil of ignorance

(10) The notion of the veil of ignorance and its role in creating social contracts was introduced in this seminal 1971 John Rawls work.

ANSWER: A Theory of Justice

(10) In many ways, *A Theory of Justice* served as Rawls' critique of this doctrine for allowing the subordination of interests of the disadvantaged in the name of producing a net benefit. Exponents of this doctrine include Henry Sidgwick.

ANSWER: utilitarianism

12. Overemotional wuss meets hot chick and falls in love. Wuss gets dreading "let's just be friends" as she marries Albert. Wuss goes mad with passion and blows his own head off with a pistol. FTPE,

(10) The above lead-in summarizes the plot of what *sturm und drang* novel, told of the form of the title character's letters to Wilhelm, and written by Goethe?

ANSWER: The Sorrows of Young Werther (accept "Sufferings" or other equivalents for "Sorrows")

(10) Werther also develops an obsession for this Celtic bard and subject of a James MacPherson hoax. He translates his poetry and reads it to his love in the climax.

ANSWER: Ossian

(10) Goethe's unrequited love for Charlotte Buff, which served as the basis for *The Sorrows of Young Werther*, was the subject of this biographical novel about the pair by Thomas Mann.

ANSWER: Lotte in Weimar: The Beloved Returns

13. Identify the following terms related to muscles, FTPE.

(10) These contractile filaments that make up a striated muscle fiber.

ANSWER: myofibril

(10) Thin filaments anchor at this location. A sarcomere is defined as a repeating pattern that extends from one of these to the next.

ANSWER: Z line

(10) These thin filaments act with a myosin filament to produce motion of a muscle

ANSWER: actin

14. As these paintings will tell you, Mother Nature can be a real bitch. FTPE.

(10) Like its companion piece depicting the morning after, this Joseph Turner painting was inspired by Goethe's theory of color. Partially based on the story of Noah's ark, it has a swirling white center surrounded by patches of black and blue, indicating an impending flood.

ANSWER: Shade and Darkness or The Evening of the Deluge

(10) A burly black dude looks as if to say, "I'm screwed" as his small, damaged boat is tossed about in bloody, shark-filled water. The painting was done by Winslow Homer.

ANSWER: The Gulf Stream

(10) The barely visible wreckage of a wooden ship and the jagged mounds of ice piled above in this painting serve as Caspar David Friedrich's response to news of a failed attempt at Arctic exploration.

ANSWER: Polar Sea

15. Give the last names of these influential married couples and social scientists, FTPE.

(10) The husband testified in *Brown vs. Board of Education* on the results of the couple's experiments recording black children's responses to white and black dolls.

ANSWER: Kenneth and Mamie Phipps Clarke

(10) This Swedish couple wrote *Crisis in the Population Question*. They went on to win Nobels in Economics and Peace.

ANSWER: Gunnar and Alva Myrdal

(10) They discussed the importance of relying on the free market in 1976's *Free to Choose*, and the husband is a leading proponent of monetarism.

ANSWER: Milton and Rose Friedman

16. Here's a bonus about an African-American author and his works, FTPE.

(10) This novel is disguised as a first person narrative compiled from tape recorded interviews with the title character, an elderly woman who was born a slave and lived to witness the start of the Civil Rights movement.

ANSWER: *The Autobiography of Miss Jane Pittman*

(10) In this 1993 novel, a black man named Jefferson sits on death row after being convicted for a murder he witnessed. Schoolteacher Grant Wiggins visits him in jail to help him die with dignity, like a man, not a hog.

ANSWER: *A Lesson Before Dying*

(10) In addition to both of the above works, this Louisiana-born author wrote *Of Love and Dust* and *A Gathering of Old Men*.

ANSWER: Ernest Gaines

17. Name the following about plans from Mexican History, FTPE:

(10) In the 1821 Plan de Iguala this future emperor of Mexico, along with Vicente Guerrero, called for a unified independent Mexico.

ANSWER: Agustín Cosme Damián de Iturbide y Arámburu

(10) In 1823, Guadalupe Victoria and this man issued the Plan de Casa Mata, which called for Iturbide's overthrow and declaration of a Mexican republic.

ANSWER: Antonio López de Santa Anna

(10) In 1910 following his arrest, this man issued the Plan of San Luis Potosi, which called for Mexicans to take up arms against dictator Porfirio Díaz.

ANSWER: Francisco Madero

18. Answer the following on myths concerning the creation of mankind.

(5, 5) For five points each: this man and woman were the first people created by Odin, Vili and Ve from two logs on a beach.

ANSWER: Ask and Embla or Ash and Elm

(10) In the *Enuma Elish*, Marduk creates mankind from the blood of this second consort of Tiamat.

ANSWER: Kingu

(10) In Vedic belief, he was the first human to die, becoming the god of death.

ANSWER: Yama

19. FTPE, answer the following on electromagnetic interactions of molecules.

(10) Their far field drops off as one over r cubed. Magnetic ones are formed by a current loop or spin, and the electric variety can be measured in debyes.

ANSWER: dipole moment

(10) This weak intermolecular interaction involving transient induced dipoles is present in all molecules, including nonpolar species like helium.

ANSWER: London dispersion forces

(10) This phenomenon is a weak induced magnetic moment opposed to the applied magnetic field. It is present in all materials but is often masked by stronger magnetic effects.

ANSWER: diamagnetism

20. Stuff about William and Mary, FTPE.

(10) This group of notable British citizens helped bring about the Glorious Revolution by issuing the *Invitation to William*, asking William of Orange to depose James II, in favor of William's wife Mary.

ANSWER: **Immortal Seven**

(10) Designed to keep Catholics off the throne, this 1701 act guaranteed a Hanoverian succession in the case that William or Queen Anne could not provide an heir.

ANSWER: **Act of Settlement**

(10) At the start of his reign, William waged war against France with the backing of this coalition of nations formed under Leopold I. The eponymous war ended with the Peace of Ryswick in 1697.

ANSWER: **Grand Alliance** or **League of Augsburg**