



Advice & Planning Services

TIAA Personal Portfolio Wrap Fee Program Disclosure Brochure

Form ADV Part 2A

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This brochure (this “Disclosure Brochure”) provides information about the qualifications and business practices of Advice & Planning Services, a division of TIAA-CREF Individual & Institutional Services, LLC relating to the TIAA Personal Portfolio Wrap Fee Program (the “Program”). If you have any questions about the contents of this Disclosure Brochure, please contact us at 212-490-9000. The information in this Disclosure Brochure has not been approved or verified by the United States Securities and Exchange Commission (the “SEC”) or by any state securities authority. Registration with the SEC as an investment adviser does not imply a certain level of skill or training.

Additional information about Advice & Planning Services is also available on the SEC’s website at www.adviserinfo.sec.gov.

Item 2 – Material Changes

A summary of the material changes made to the TIAA Personal Portfolio Wrap Fee Program described in this Disclosure Brochure will be published in a separate document that will be distributed annually to clients who received the previous version of the Disclosure Brochure.

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Item 4 – Services, Fees and Compensation

Thank you for your interest in the TIAA Personal Portfolio Program (the “Program”), an interactive investment advisory service provided through Advice and Planning Services (“APS”), a division of TIAA-CREF Individual & Institutional Services, LLC (“TC Services”). APS sponsors, administers and manages the Program. APS also provides other separate managed account and investment advisory services, as described under “*Other Advisory Services*” in Item 6.

This Disclosure Brochure describes the Program and the compensation APS and its affiliates receive in connection with the services provided through the Program.

As a registered investment adviser, APS has a fiduciary duty to its clients under the Investment Advisers Act of 1940 in connection with the Program. This means that APS is required to act in your best interest pursuant to a duty of loyalty and care. In operating the Program, APS seeks to either avoid or mitigate material conflicts of interest with its clients and to provide Program clients with disclosure of such conflicts of interest. You should carefully consider the information set forth in this Disclosure Brochure in your evaluation of the Program.

The TIAA Personal Portfolio Program

The Program is a fee-based discretionary advisory service offered online through an interactive website, mobile application or other electronic platform that is used to operate the Program (the “Site”).

Participation requires your consent to receive communications relating to the Program by electronic delivery, and APS will interact with you primarily through the Site. The Program manages portfolios using a model-based approach that follows long-term investing principles.

With TIAA Personal Portfolio, you will receive:

- Professional investment management inclusive of asset allocation design and investment manager selection resulting in a model portfolio designed to align to your individual goal, your tolerance for risk (“risk level”) and defined investing preferences.
- Regular review of the mutual funds and exchange traded funds utilized in your Program account.
- Daily account monitoring to ensure that your Program account remains on track.
- Rebalancing to keep your Program account in line with your investment strategy.
- Detailed performance reporting and goal tracking to help you monitor your progress.
- Access to investment adviser representatives that service the Program, referred to as an Advisory Consultants, when you need help along the way.

The Program is appropriate for you if you have a minimum three-year investment timeframe and a \$5,000 minimum investment.

Before you invest in the Program, consider the following:

- You may wish to consider separately setting aside an emergency fund consisting of cash or liquid investments in addition to any amount you choose to invest in the Program.

- If you have a workplace retirement savings plan through your employer, you may want to consider setting aside the maximum allowable amount in that plan before opening a Program account. This amount will vary depending on your age.
- While it is important to invest in your future, it may also make sense to pay off your debt, particularly high-interest debt, first. Before investing in a TIAA Personal Portfolio or any other type of investment account, consider your debt balances.

If you feel like you've addressed these considerations, an investment account such as TIAA Personal Portfolio can be a helpful way to pursue long-term goals. For taxable Program accounts, you can deposit as much as you'd like, with online contributions limited to \$250,000 per day. If you'd like to start with an amount greater than this, please call an Advisory Consultant at 844-362-8422. For individual retirement account ("IRA") Program accounts, your contribution amounts are subject to the limits established by the Internal Revenue Service. See [irs.gov](https://www.irs.gov) for more information.

Model-Based Portfolios.

A variety of model portfolios are used to manage Program accounts. The model portfolios range from aggressive to conservative risk levels. Based on a review of your investment goal, risk level, investment timeframe and preference for certain investment options that are available through the Program (referred to as "Investing Styles" in this Disclosure Brochure as described further in Item 6) that you provide through the Site, you will receive an investment strategy proposal (both asset allocation and fund selection) ("Investment Strategy Proposal") from a series of model portfolios created for the Program. Your assets will thereafter be managed in accordance with the appropriate agreed upon model portfolio. Adjustments will be made to the model portfolios from time to time, in consideration of changes in market conditions and in a manner that is consistent with the long-term orientation of the Program as described under "*Methods of Analysis, Investment Strategies and Risk of Loss*" in Item 6 below.

Your Investment Strategy Proposal is based on and limited to only the information you provide through the Site in connection with your Program account. The Program will continue to rely on such information in managing your Program account. Therefore, it is important that the information you provide through the Site is accurate and complete, and that you update that information promptly if it changes. The Program will not independently verify any information you provide through the Site. While the Site may allow you to enter information regarding accounts that you have outside of the Program account ("Other Accounts"), the Program uses that information solely for the purpose of calculating your potential retirement income in connection with the Retirement Check-Up tool provided on the Site. The Program will not consider information about your Other Accounts in managing your Program account. The Program also does not manage any of your Other Accounts.

Portfolio Investments.

The Program currently uses a variety of registered funds, including mutual funds and exchange traded funds ("ETFs" and collectively, "Funds") to build a Program account of diversified holdings appropriate for clients enrolled in the Program. The Program, at APS' discretion, will use all or a subset of these Funds to construct the model portfolios. The Funds include affiliated TIAA investment products as well as unaffiliated investment products. TIAA investment products are sponsored, managed, advised or manufactured by TIAA affiliates, such as the TIAA family of mutual funds and the various registered mutual funds of Nuveen Investments, Inc. (we refer to all such affiliated products as "Affiliated Funds" in this Disclosure Brochure).

The Program only selects investments from the universe of Funds that are available through the fund platform sponsored by the Program's qualified custodian, Pershing, LLC ("Pershing"), and that, do not include a surcharge on purchases and sales (the "Universe"); provided, however, that APS may from time to time select from the surcharge list where APS deems it appropriate (and in those instances APS will bear the cost). APS has a conflict of interest in deciding to exclude Funds that impose additional trading expenses, such as surcharges, because doing so allows APS to minimize its own costs. By imposing this limitation, the Program excludes Funds that may have superior performance, lower expense ratios, and/or other potentially more favorable investment metrics. The Program seeks to mitigate this conflict by disclosing it to you.

Other Investments: APS believes that Funds are appropriate investment products for the Program for reasons of diversification and expense. However, investing in Funds will cause you to incur indirectly Fund-level fees and expenses in addition to the fees and expenses directly associated with your participation in the Program. The Program may also in the future expand the types of securities included beyond Funds. The Program will provide you with 30 days' advance written notice of any such expansion and allow you to reply or terminate within that 30-day timeframe if you do not wish to have the additional types of securities purchased in your Program account. If you do not respond within the time provided, you will be deemed to have consented and the new security type will be incorporated into the model portfolios.

Share Class Selection.

Mutual funds often offer several share classes to investors. Each share class invests in the same portfolio of underlying securities and has the same investment objectives or policies. However, their fees, expenses, and initial investment minimums differ. When constructing models, the Program generally uses share classes of mutual funds that are in the Universe and designed for institutional use. Other share classes will be used in the event that (i) share classes designed for institutional use are not offered by the mutual fund complex, (ii) the Program is ineligible for share classes designed for institutional use based on criteria set forth in the mutual fund's prospectus, or (iii) the Program is not granted a waiver to use share classes designed for institutional use by the mutual fund complex.

Share classes designed for institutional use typically do not charge Rule 12b-1 fees, but may charge other fund fees for distribution, administrative, sub-transfer agency, or shareholder services (referred to as "Other Fund Fees"), as disclosed in each mutual fund's prospectus. In those cases where the Program invests in share classes that charge Rule 12b-1 fees or Other Fund Fees, APS' policy is to credit any portion of that fee received by TC Services from the Fund to your Program account as described under "*Rule 12b-1 and Other Fund Fees*" in this Item 4. Other service providers, such as Pershing, receive Rule 12b-1 fees and Other Fund Fees in connection with Funds held in Program accounts. APS does not reimburse these fees that are paid to Pershing to Program clients.

The Program will periodically monitor your investments for eligibility to use an share classes designed for institutional use within the Universe and convert your shares when operationally feasible at the Program's discretion. The Program does not guarantee that you will always be invested in the most favorable share class offered by a mutual fund complex.

When you transfer Fund shares into your Program account for any reason, APS does not convert your holdings in these Funds to a more favorable share class, except for shares transferred into the Program for sale that would be otherwise be selected by the Program, at its discretion, for use in your model portfolio, as described under "*Funding*" in this Item 4 below.

Use of Affiliated Funds and Two Levels of Fees.

Affiliated Funds are included in many of the Program's model portfolios (and the Program accounts of clients following each model), subject to the quantitative and qualitative investment selection and evaluation criteria described under "*Methods of Analysis, Investment Strategies and Risk of Loss*" in Item 6.

As a result of the qualitative component, Affiliated Funds can be selected for inclusion in a model portfolio even if they rank quantitatively lower in terms of performance and/or other investment metrics than unaffiliated Funds. You could own Funds that rank quantitatively higher in terms of performance and/or other investment metrics outside of the Program.

The amount of Affiliated Funds included in your Program account will vary depending on the model portfolio you select. If you select the Impact Investing Style (by indicating a preference for actively managed and socially responsible investments on the Site), on or about the date of this Disclosure Brochure, as much as approximately 79% of your Program account will be targeted for allocation to Affiliated Funds. If you select the Basic Investing Style (by indicating a preference for passive funds on the Site), on or about the date of this Disclosure Brochure, as much as approximately 53% of your Program account will be targeted for allocation to Affiliated Funds. If you select the Insight Investing Style (by indicating a preference for active funds on the Site), on or about the date of this Disclosure Brochure, 0% of your Program account will be targeted for allocation to Affiliated Funds. The percentages noted are approximations and vary for each portfolio based on risk levels. Given the discretionary nature of the Program, at a future date, the allocation to Affiliated Funds in your Program account will be higher or lower than those shown here without notice to you.

The Investment Strategy Proposal that you receive at the time of Program enrollment sets forth the initial anticipated asset allocation and lists the corresponding specific investments, including Affiliated Funds, to be used in the management of your Program account. Please note that both the allocation and the specific investments used for your Program account are subject to change. You should refer to your account statements and account information on the Site, which show the current composition of your Program account holdings and specific percentage allocation to each investment in your Program account, including Affiliated Funds.

TIAA and its affiliates have a conflict of interest in selecting Affiliated Funds for client portfolios because TIAA affiliates earn compensation for advisory, distribution and administrative services provided to the Affiliated Funds. This compensation is in addition to the asset-based fee that you pay to APS for participation in the Program ("Program Fee") resulting in the receipt of "two levels of fees." We seek to address the conflict associated with investing Program accounts in Affiliated Funds in multiple ways, including disclosing the conflict of interest in this Disclosure Brochure and providing you with detailed information about your Program account's allocation to individual positions. We also seek to mitigate this conflict for IRAs (but not taxable accounts), enrolled in the Program by providing fee credits and to all Program accounts by providing reimbursements of Rule 12b-1 fees and Other Fund Fees, as described under "*Program Fees*" in this Item 4. These additional fees may be significant, both in absolute dollar amounts and relative to TIAA's net income, and the receipt and retention by TIAA and its affiliates of these fees creates an incentive for TIAA to cause the Program to select and continue to retain Affiliated Funds over unaffiliated Funds. A more detailed discussion of the additional fees that TIAA and its affiliates receive from the use of Affiliated Funds in the Program and the ways we address this conflict of interest appear throughout this Item 4 and in Item 6 of this Disclosure Brochure. You should consider this additional Fund-related compensation when evaluating the amount and appropriateness of the fees we earn in connection with your Program account and the Program.

Rebalancing.

The model portfolio used in connection with your Program account will be monitored daily for drift. When market conditions or deposits to and withdrawals from your Program account cause your assets to deviate over time from the model portfolio used to manage your Program account, and such deviations become materially significant (as determined by the Program's parameters), then your Program account will be rebalanced to align more closely with the model portfolio. Program accounts with values that drop below the \$5,000 minimum may not be able to achieve optimal rebalancing because a rebalance may mean that the Program account should hold certain securities that it cannot hold as a result of such lack of assets. The Program parameters and methodology for rebalancing are determined and may be changed by TIAA, FSB, at its discretion.

Other Managed Account Programs.

APS and its affiliated federal savings bank, TIAA, FSB, offer other managed account programs, such as the Portfolio Advisor program offered through APS and the Private Asset Management program offered through TIAA, FSB, which have different fee structures and service offerings than the Program and have access to different Funds, asset classes and/or share classes of Funds than those available through the Program. You can call an Advisory Consultant at 844-362-8422 to discuss more information about the other managed account programs if desired.

Program Enrollment and the Site.

To enroll in the Program, you will engage through the Site to answer a series of questions that identify your investment goals, risk level, timeframe and Investing Style. The Program relies on the information you provide on the Site in recommending the appropriate model portfolio for your Program account. The Program gathers additional personal information, including your age and liquid net worth, which is used to meet APS' regulatory obligation and not for recommending the appropriate model portfolio for your Program account. You are responsible for the accuracy of all information provided to APS in connection with the Program.

APS will not independently verify any information you provide through the Site. While the Site may allow you to enter information regarding Other Accounts, APS uses that information solely for the purpose of calculating your potential retirement income in connection with the Retirement Check-Up tool. APS will not consider information about your Other Accounts in managing your Program account. The Program also does not manage any of your Other Accounts.

The Program is offered only online through the Site. The Program does not offer you a dedicated investment advisor, as certain other investment advisory programs may offer. The Program does, however, offer access to Advisory Consultants who can help answer questions about your Program account.

By signing up for the Program, you consent to electronic delivery of all current and future Disclosure Brochures, Disclosure Brochure supplements, privacy notices, prospectuses and offering documents, tax forms and other legal and regulatory notices, disclosures and communications (collectively, "Communications") delivered or provided by APS in connection with services offered through the Program. You are also expected to communicate with APS primarily via electronic channels (*i.e.*, email, chat, the Site or other electronic medium). You are responsible for maintaining an updated email address for electronic delivery and communicating changes in your email address promptly.

Your access to the services provided through the Program is conditioned on your consent to electronic delivery. You may revoke this electronic consent at any time by contacting an Advisory Consultant at 844-362- 8422. However, if you revoke consent to electronic delivery, this Program may not be

appropriate for you and APS thereby reserves the right to terminate your participation. You will receive paper mailings until your Program account is terminated.

The Site will serve as your primary point of contact with respect to your participation in the Program. While Advisory Consultants are available to you for particular questions, the majority of Program questions can be answered through the Site. You should log into the Site to inform APS of any changes to your circumstances that could impact the management of your Program account, such as a change to your investment goals, risk level, timeframe or Investing Style.

Funding.

You may fund your Program account using cash or securities. If you do not fund the Program account within 30 days of opening your Program account with assets that meet the Program's minimum required amount of \$5,000, APS will, at its discretion and within a reasonable timeframe, terminate the Program account, as described under "*Termination*" in Item 5. Underfunded Program accounts will not be managed until they are funded to meet the Program's minimum required amount.

Securities Transferred into Program Account for Funding: You can fund your Program account with securities that you already own, provided the securities are liquid and able to be sold by us. Securities that you transfer into your Program account will be sold or returned to you as soon as practicable, with the exception of in this Item 4 above and mutual funds that are already used in Program models, as described below. The Program reserves the right to require you to wait a specific period of time before depositing any securities into your Program account for funding purposes. APS does not charge the Program Fee on these securities. TC Services treats any Rule 12b-1 and Other Fund Fees associated with these securities in the manner described under "*Program Fees*" in this Item 4.

If the security is a mutual fund already used in Program models, the Program will not sell it, but rather retain your shares and convert them to the share class used by the Program, if it is different from the share class you own. The Program will complete any such exchanges as soon as they become operationally feasible at the Program's discretion. In all other cases, APS will retain your existing share classes rather than converting them to a more favorable share class. If the holding pays a Rule 12b-1 fee or Other Fund Fee, APS will treat these fees in the manner described under "*Program Fees*" in this Item 4.

You understand and agree that if you initially fund your Program account in whole or in part through the transfer of securities or make any subsequent deposit of securities into your Program account, you may incur taxes or contingent deferred sales charges when such assets are sold. You should consult with your tax advisor in this regard. Neither APS nor its Advisory Consultants provide tax or legal advice. Factors such as limited liquidity and limited pricing transparency and quotations may impact the price obtained when the assets are sold or delay the sale. Moreover, any securities that cannot be sold may be returned to you at any time.

Additionally, if you fund your Program account with bonds you must promptly provide written consent for the Program to sell those bonds. If such consent is not provided within 30 days and the assets in your Program account are under the Program's minimum required amount of \$5,000, APS will, at its discretion, and within a reasonable timeframe, terminate the Program account, as described under "*Termination*" in Item 5.

Investment Restrictions.

You may impose reasonable restrictions (otherwise referred to on the Site or other Program documents as "personalizations") upon the management of your Program account by calling an Advisory

Consultant at 844-362-8422 to request that the Program select an alternative security in place of a security that was initially selected for your model portfolio. For example, you may request that the Program replace a particular Fund held in your Program account. The Program will not accept any restrictions that are inconsistent with the Program's stated investment strategy, guidelines, or philosophy or that are inconsistent with the nature or operation of the Program.

Due to the composition and asset allocation of the model portfolios, a request to replace any more than one Fund in your Program account will not be considered reasonable and generally will not be accepted. Restrictions on the underlying securities held in the Funds will also not be considered reasonable and will not be accepted. Any restrictions requested by you are subject to acceptance by the Program at its discretion and may cause the performance of your Program account to differ from that of the recommended model portfolio, possibly causing higher or lower returns. In addition to the ability to impose a reasonable restriction, you also have the ability to personalize the model portfolio by selecting among Investing Styles. You can select from a mostly passive strategy (referred to as Basic), a mostly active strategy (referred to as Insight) or a mostly socially responsible strategy (referred to as Impact). These Investing Styles are discussed further in Item 6. The Program may include additional preferences from time to time with notice to you of any material modifications. The imposition of a personalization will result in a strategy that differs from the Program's model portfolio and may reduce your exposure to your selected Investing Style.

Discretionary Authority.

When opening a Program account, you will enter into an advisory agreement with APS (the "Advisory Agreement") and grant APS discretionary investment authority to manage your Program account. Your grant of discretionary authority means that the Program will have full discretion to make and implement investment decisions for your Program account. The Program will not provide prior notice to or seek your approval when selecting securities to buy, sell or hold for your Program account or broker-dealers to effect transactions for your Program account.

Your grant of discretionary authority does not authorize APS to withdraw or transfer funds, except as necessary to collect the Program's advisory fee. You are prohibited from placing or directing trades in your Program account when enrolled in the Program.

Your grant of discretionary investment authority is durable and will continue despite your subsequent disability, incapacity, incompetence or death. In the event of your disability, incapacity, or incompetence, the services under the Program will continue and a fee will be charged, as described under "*Program Fees*" in this Item 4, until APS receives written notice from an executor, beneficiary or other representative terminating the Program account.

In the event of your death, the services under the Program will continue and the Program Fee will be charged, as described under "*Program Fee*" in this Item 4, until APS receives a request for distribution from any of your beneficiaries or notice from your executor to terminate the account. When a beneficiary requests disbursement subsequent to your death, funds will be distributed to your beneficiary and any remaining unclaimed balances will escheat to your state of residency per state guidelines.

Your grant of discretionary authority also extends to the selection of a tax lot relief method (also called a cost accounting method) for your Program account in calculating the gain or loss on the sale of a security in your Program account. A tax lot relief method is a way of computing the realized gain or loss for an asset sold in a taxable transaction. It determines the lot of a security that is sold, as well as its associated cost basis, and the holding period used in computing the gain or loss on that sale. Although the default tax lot relief method, as specified in the Brokerage Account Customer Agreement

(“Brokerage Agreement”), is First In, First Out (“FIFO”), under this Program APS will select the cost basis accounting method that it deems appropriate to use in its sole discretion with respect to any transaction in your Program account. By enrolling in the Program, you are granting APS the authority to use any such method in its discretion, or any such method it implements by default, for any transaction in your Program account. TIAA and its affiliates shall have no liability for any damages you may incur as a result of (i) TIAA providing the required 1099-B Annual Information Report to the IRS, (ii) TIAA’s selection of, or change in, the method it uses to calculate your cost basis, or (iii) any differences in the cost basis reported by TIAA to the IRS and your actual adjusted cost basis in the relevant security in your Program account.

Program Agreements.

In addition to the Advisory Agreement that you enter into with APS, the Program also requires that you open a brokerage account with TC Services’ brokerage division (“TIAA Brokerage Services”) by completing the Program’s application (the “Application”) through the Site and entering into a Brokerage Agreement with TIAA Brokerage Services.

Pershing, a subsidiary of The Bank of New York Mellon N.A. that is unaffiliated with APS, acts as TIAA Brokerage Services’ clearing firm and holds your Program account assets in its custody in fully disclosed brokerage accounts on its platform. Pershing is a member of SIPC, which protects securities customers of its members for up to \$500,000 (including \$250,000 for claims for cash). See the TIAA SIPC Asset Protection Reference Guide (available at <https://www.tiaa.org/public/brokerage/custsvce/forms.html>) for more information. With respect to IRA assets (“IRA Assets”), other than SIMPLE IRA assets, TIAA, FSB acts as directed trustee for the IRA Assets and has legal custody of IRA Assets through this role. TIAA, FSB is compensated for this role. Pershing currently acts as service agent for the IRA Assets, performing certain administrative, recordkeeping, and reporting duties and responsibilities of TIAA, FSB, including but not limited to maintaining physical custody of IRA Assets and sending of brokerage account communications to you, such as periodic account statements. You should compare the account statements received from Pershing with your account activity on the Site. The Program uses TIAA Brokerage Services and Pershing to execute all securities transactions because any transaction fees incurred through other broker-dealers are in addition to, and not included within the Program Fee.

In addition to terms and conditions of the Advisory Agreement and the Brokerage Agreement, you will be subject to the terms and conditions of each respective Fund’s prospectus or similar disclosure documents, including any underlying fees and expense ratios described therein. For a description of the conflict of interest arising from the investment of Program accounts in Affiliated Funds, and from the receipt by TIAA and its affiliates of additional compensation for providing advisory, distribution and administrative services to those Affiliated Funds, see “*Use of Affiliated Funds and Two Levels of Fees*” above in this Item 4.

Execution Practices.

The Program’s objective in executing client trades is to obtain best execution. TIAA Brokerage Services, which executes trades for the Program executes all trades through its clearing broker, Pershing, LLC. TC Services has adopted a Best Execution Policy to monitor Pershing’s execution of its trades.

Trade Order Aggregation and Randomization.

The Program aims and to aggregate and allocate trading in a manner designed to achieve fair and equitable treatment of its clients. The Program, determines the timing and allocation of trades for portfolios before providing the trades to TIAA Brokerage Services for execution.

Where applicable, client orders will be aggregated for trading with orders of other managed account programs offered by APS (which are described under “*Other Advisory Services*” in Item 6). Where the Program opts to aggregate orders, such orders will be allocated on a pro-rata, average price basis. Orders are aggregated to facilitate seeking best execution, to negotiate more favorable commission rates, or to allocate equitably among TIAA clients the effects of any market fluctuations that might have otherwise occurred had these orders been placed independently.

The Program, at its discretion employs a randomized trading process when executing large share trade orders that can occur when there are large daily flows into or out of the Program, when rebalancing Program accounts, or when replacing a Fund with another Fund across all applicable Program accounts. This randomized trading process is utilized to prevent one client or group of clients or strategies from being unfairly or systematically favored over another.

Large trades may need to be executed over multiple days or different times in the same trading day for multiple client accounts within the Program or across multiple managed account programs offered by TIAA and its affiliates (which are described under “*Other Advisory Services*” in Item 6). Trades done on the same day or over multiple days are not guaranteed to receive the same execution price.

Trade Errors.

The Program maintains policies and procedures that address the identification and correction of trade errors. On those occasions when such an error does occur, the Program will use reasonable efforts to identify and resolve errors as promptly as possible. The Program will address and resolve errors on a case-by-case basis, in its discretion, based on the facts and circumstances. The Program is not obligated to follow any single method of resolving errors but will seek to treat all clients fairly in the resolution of trade errors.

Bank Sweep.

Cash balances held in your Program account are invested in the bank sweep product described here. TIAA Brokerage Services may change the terms and conditions of the sweep program it makes available to brokerage accounts, and therefore to Program accounts, including adding, changing or deleting available sweep vehicle options.

Cash balances in your Program account, up to a maximum deposit amount (currently \$248,500) will be swept into deposit accounts with TIAA, FSB (the “Affiliate Bank Sweep”). TIAA, FSB is a federal savings bank and an affiliate of TC Services. See the Brokerage Sweep Terms and Conditions for more information. In the event your Program account holds a cash balance in excess of the maximum deposit amounts, a separate overflow bank sweep product sponsored by Pershing and Reich & Tang Deposit Solutions, LLC—the Liquid Insured Deposits product (“LIDs”)—will be used for such excess amounts. Through LIDs, a variety of participating banks unaffiliated with TIAA may receive deposits. See the LIDs Terms and Conditions for more information. TIAA, FSB pays TC Services a flat fee for each Program account invested in the Affiliate Bank Sweep.

TIAA, FSB, as well as other banks that receive deposits through the bank sweep products, earn net income from the difference between the amount that the bank pays on the deposit accounts and the income the bank earns on loans, investments and other assets. Use of the Affiliate Bank Sweep presents a conflict of interest for APS because TC Services earns compensation for each account invested in the Affiliate Bank Sweep and because TIAA, FSB earns compensation on deposits it accepts through the Affiliate Bank Sweep. Additionally, TIAA, FSB has discretion over the setting of interest rates for deposits through the Affiliate Bank Sweep. The interests of TIAA, FSB with respect to the setting of

this rate may be different from yours—the higher the deposit amount and the lower the interest rate paid, the more TIAA, FSB earns. APS seeks to address these conflicts of interest associated with the use of Affiliate Bank Sweep in the Program by excluding cash balances held in your Program account when calculating the Program Fee, by providing disclosure of these conflicts in this Disclosure Brochure and by targeting your portfolios allocation to cash at 1% (subject to market fluctuation). Current rates for the Affiliate Bank Sweep can be accessed at www.tiaa.org/BrokerageForms or by calling 844-362-8422. Sweep vehicles available outside of the Program can pay higher rates. Sweep vehicles available outside of the Program can pay higher rates.

Special Considerations regarding Individual Retirement Accounts.

You may rollover assets from an employer sponsored retirement plan account into an IRA to be managed through the Program or transfer assets from an existing IRA into a new IRA to be managed through the Program. Prior to rolling over or transferring assets into an IRA to be managed by the Program, you should consider the features, costs and surrender charges associated with consolidating the assets in one place. For instance, IRA rollovers and transfers may be subject to differences in features, costs and surrender charges. You should consider all of their options prior to rolling over assets into an IRA. A detailed description of these considerations may be found at http://www.tiaa.org/public/pdf/Know_Your_Options_from_TIAA.pdf. You may be able to leave money in their current plans, withdraw cash subject to potential penalties or rollover the assets into a new employer's plan if one is available and rollovers are permitted. Call an Advisory Consultant at 844-362-8422 for more information. However, please note that neither APS nor our Advisory Consultants provide tax advice.

APS benefits when you move funds from your employer sponsored retirement plan to a Program account because of the Program Fee, which would not be charged if your assets remain in an employer sponsored retirement plan. This creates a conflict of interest. We seek to mitigate this conflict by disclosing it to you and by requiring Advisory Consultants to discuss your options when making a rollover recommendation. We also require that rollover transactions recommended by an Advisory Consultant be reviewed as required by applicable regulatory standards to determine whether they are appropriate to meet clients' financial needs.

Depending on how you access the Site, the Site may provide an optional tool that can help you calculate potential retirement income based on your stated retirement savings. For all clients who select the retirement goal, the Site also provides information and education regarding the differences between Traditional and Roth IRA account types that are available for a Program IRA account. While these tools are intended to provide you with information to help you make informed decisions about how much to invest in a Program IRA account or the type of Program IRA account that you open, you should not view or construe the availability of these tools as a suggestion that you take or refrain from taking a particular course of action, as the advice of an impartial fiduciary, or as an offer to sell or a solicitation to buy any securities.

In making the tools and information available to you, APS assumes that you are capable of evaluating the information and exercising independent judgment. You should not invest a particular dollar amount in the Program or select a particular account type without first considering whether it is appropriate for you based on your own particular situation. APS will not perform any suitability or other analysis to check, for example, whether the amount you choose to invest is appropriate or consistent with your investment objectives nor whether the IRA account type selected is appropriate for you. The information that you may derive from these tools is for illustrative purposes only and is not individualized or based on the particular needs of any investor. The purpose of these tools and information is not to predict future returns, but to be used as education. The assumptions underlying these tools are described to you in the tool and will change over time and from time to time. You should

read all associated disclosures. You should not rely on the information as the primary basis for making investment decisions or on these tools and information as the sole source of making any financial decisions. Contact your tax advisor regarding the tax implications. Call an Advisory Consultant at 844-362-8422 for more information.

Program Fees.

Your Program account will be charged an asset-based fee of 30 basis points (0.30%) annually for participation in the Program (the “Program Fee”). The Program Fee may change upon 30 days’ written notice to you and you will be deemed to have consented if you remain enrolled in the Program subsequent to the notice period.

What the Program Fee Covers: The Program Fee is a “wrap fee” that covers the fees and costs associated with managing your Program account, developing the Program’s advice, custody of Program assets, trade execution through TIAA Brokerage Services, client reporting, redemption fees resulting from mutual fund trades and other administrative expenses.

The Program Fee does not include costs associated with additional services requested by you, including wire or electronic fund transfer fees, overnight delivery fees, duplicate statement fees, account transfer fees, administrative fees, agent servicing fees, direct registration fees, dividend reinvestment fees, extension fees, foreign dividend/custody/settlement fees, returned check fees, share class exchange fees, statement paper surcharge fees, special product fees, stop payment fees, termination fees, voluntary reorganization fees, or any contingent deferred sales charges that may be incurred upon the sale of a security transferred into the Program account at your request. As discussed under “*Program Agreement*” in this Item 4, the Program Fee does not include the fees and expenses of the Funds held in Program accounts.

Cash Balances: The Program excludes cash balances that are held in your Program account when calculating the Program Fee.

Payment of the Program Fee: The Program Fee is payable quarterly in arrears. It is calculated by multiplying the daily trade date market value of the Program account by the pro-rata daily Program Fee (the “daily fee calculation”) and summing the value of the daily fee calculations during the preceding quarter. The Program determines market value in reliance upon published net asset values and prices reported on national exchanges. Should neither be available for a particular security, the Program will price the relevant security based upon fair valuation principles that estimate what the security would bring upon sale. The Program Fee will be deducted from the Program account on a quarterly basis, generally within thirty business days after each quarter’s end, by charging cash balances or redeeming Fund shares within the Program account. The redemption of Fund shares is a taxable event for non-tax advantaged accounts of Program clients (*e.g.*, of IRAs). The Program Fees for partial quarters (*i.e.*, upon the inception or termination of a Program account) will be prorated.

Waivers and Discounts: The Program reserves the right to reduce the Program Fee at its discretion or to offer other promotions, including for promotional events that may result in complimentary or reduced advisory fees for new clients, to current clients for referrals, for clients making deposits above a certain size, for TIAA employees and/or for family members of TIAA employees. These promotions may include additional Program account services, products bonus payments and other forms of incentive. These promotions may create a conflict of interest in requiring you to maintain certain levels of assets managed through the Program in order to become eligible to receive an incentive, bonus or additional compensation. We seek to address these conflicts by disclosing the terms and conditions of any such promotions to you. Other than as noted, the Program Fee is not negotiable.

You may be able to invest directly in the securities purchased within the Program, without enrolling in the Program and incurring the Program Fee, but in that event, you would not receive the advice available to Program clients and may not be eligible to purchase or retain the same share classes in which the Program invests. The Program may cost you more or less than purchasing the services provided under the Program separately depending in part upon the size of your Program account, subsequent deposits and withdrawals, the frequency of your transactions, and the cost and availability of similar advice available outside of the Program. The Program does not include advice on assets you hold outside of the Program, nor does it monitor assets you hold outside of the Program.

Other Fees and Expenses.

Your Program account will be subject to the following additional fees and expenses, when applicable.

Two Levels of Fees and Expenses - Costs and Expenses of Underlying Funds: The Program Fee does not include any fees, costs and expenses inherent in the underlying Funds, including investment advisory, administrative, distribution, transfer agent, custodial, legal, audit, contingent deferred sales charges or redemption fees, and other customer fees and expenses related to investments in these products which are described in the relevant prospectus or similar disclosure documents. Consequently, this means that, as a participant in the Program, you will bear two levels of fees and expenses. You will bear directly the Program Fee and also bear indirectly the Fund fees and expenses as a Fund shareholder, except where expressly qualified in connection with your IRAs enrolled in the Program. See “*Affiliated Fund Fee Credit – for IRAs*” in this Item 4. The fees and expenses of the Program, along with the fees and expenses that will be borne by each Program client as an investor in the underlying Funds may be lower or higher than those imposed by other investment programs offered by TIAA affiliates.

As described under “*Use of Affiliated Funds and Two Levels of Fees*” in this Item 4, TC Services and certain other TIAA affiliates receive compensation for services they provide to Affiliated Funds, including but not limited to advisory, distribution and administrative services. Such Fund-related compensation will be in addition to the Program Fee and is a conflict of interest. You should consider this additional Fund-related compensation when evaluating the amount and appropriateness of the fees we earn in connection with your Program account and the Program.

Rule 12b-1 Fees and Other Fund Fees: Among the fees you bear indirectly as a Fund shareholder are Rule 12b-1 fees and Other Fund Fees that are paid by certain share classes of mutual funds and by ETFs held in Program accounts. The Program’s policy is to credit any portion of these fees received by TC Services from the Fund to your Program account. Other service providers, such as Pershing, receive Rule 12b-1 fees and Other Fund Fees in connection with the Funds held in Program accounts and APS does not reimburse these fees to Program clients.

Please consult the prospectus and statement of additional information of a particular Fund for more information concerning these fees. See “*Share Class Selection*” in Item 4 above for more information on the share classes used in the Program

Affiliated Fund Fee Credits – for IRAs: For IRAs enrolled in the Program, the Program Fee will be reduced by a fee credit for revenue that TIAA affiliates receive and retain as a result of assets invested in Affiliated Funds. The fee credit will equal the sum of (i) the investment management portion (including advisory and sub-advisory fees) of the Affiliated Fund’s expenses that TIAA affiliates retain in connection with the Affiliated Funds held in the Program account, and (ii) the administrative and other fees that TIAA affiliates retain from such Affiliated Funds that are included in the Affiliated Fund’s expenses. The fee credit amount will generally exclude any reimbursable expenses paid by the Affiliated Funds to TIAA affiliates which are reasonable direct expenses of the TIAA affiliates. This

includes expenses such as salaries of affiliate personnel attributable to work performed for the Affiliated Funds held in the Program account and third-party custodial fees and transfer agent fees associated with the Affiliated Funds held in the Program account. The fee credit amount will vary depending upon the particular Affiliated Fund employed as the amount of retained fees subject to the fee credit differ from Affiliated Fund to Affiliated Fund. While the fee credit reduces the Program Fee paid by you resulting in lower investing costs (than if you were to bear those costs in addition to the Program Fee) and a corresponding increased share of any investment returns, a reduced Program Fee does not assure gains in your Program account as performance of your Program account ultimately is dependent on the performance of the combination of Funds selected for investment as well as the performance of the underlying investments within each Fund. For all other Program account types, APS will not reduce the Program Fee by a fee credit. APS or certain other TIAA affiliates will retain all these fees in addition to the Program Fee. See *“Use of Affiliated Funds and Two Levels of Fees”* in this Item 4.

About TIAA

TIAA is the marketing name under which Teachers Insurance and Annuity Association of America (“TIAA”) and its subsidiaries provide services. TIAA, a life insurance company, is the direct parent company of TC Services (and its APS division). Any profits earned by TIAA subsidiaries, including TC Services, may be paid in the form of dividends directly or indirectly to TIAA. Such dividend amounts, if any, become part of the general account for TIAA, which is used to back the annuity and other insurance products it issues and would inure to the benefit of the holders of such annuity and other insurance products. These annuity and other insurance products are not currently available for investment through the Program.

TC Services is registered with the SEC as both an investment adviser and broker-dealer and is also a member of the Financial Industry Regulatory Authority (“FINRA”). As a broker-dealer, TC Services is involved in the sale of securities, including but not limited to variable annuities, mutual funds and individual equity and fixed income offerings. TC Services provides retail brokerage services under the name TIAA Brokerage Services. As noted above, TC Services provides investment advisory services to individuals under the name Advice & Planning Services.

TIAA and TC Services have entered into a service arrangement whereby TIAA, directly or through its subsidiaries, provides a variety of services that are material to APS’ investment advisory activities, including administrative, legal and marketing services. All APS representatives, including the Advisory Consultants, Advisors and other TIAA representatives, are employees of TIAA and broker-dealer registered representatives of TC Services. Advisors and Advisory Consultants are also investment advisory representatives of APS. Certain officers and directors of TC Services may also serve in similar capacities with affiliated entities. TIAA, FSB, which helps provide advice for the Program, is an indirectly, wholly owned subsidiary of TIAA.

TC Services and its affiliates provide services to, and receive compensation from, the Affiliated Funds. This includes:

The TIAA-CREF Family of Funds: Teachers Advisors, LLC is the advisor to the TIAA-CREF family of Funds and an indirectly, wholly owned subsidiary of TIAA, and receives compensation for its investment management services from the TIAA-CREF family of Funds. Additionally, other TIAA affiliates provide services to certain series of the TIAA-CREF family of Funds: TIAA provides administrative services, Teachers Personal Investor Services, Inc. is the principal underwriter, and TC Services provides distribution services. These entities receive compensation for their services from the TIAA-CREF family of Funds. See the Funds’ prospectuses for a description of the compensation. Always consult the Fund prospectus for the most current information.

The Nuveen Family of Funds: Nuveen Fund Advisors, LLC, is the advisor to the Nuveen Funds and a subsidiary of Nuveen Investments, Inc. Various subsidiaries of Nuveen Investments serve as sub-advisors to the Nuveen Funds. Nuveen Securities, LLC, also a subsidiary of Nuveen Investments, Inc., serves as the principal underwriter for the Nuveen Funds. Nuveen Investments, Inc. and its subsidiaries are indirectly, wholly owned subsidiaries of TIAA. TC Services provides distribution services to the Nuveen Funds in connection with Program accounts. Each of these affiliates receives compensation from the Nuveen Funds in connection with the services it provides. See the Funds' prospectuses for a description of the compensation. Always consult the Fund prospectus for the most current information.

Compensation of TC Services Personnel.

Different TC Services' employees can assist you in connection with the Program. A team of investment adviser representatives that service the Program are available by phone ("Advisory Consultants") to answer questions about your Program account, as well as other products, services and accounts offered through TIAA. If you are a Field & Advisory Services client, an investment advisor representative ("WMA") may discuss the Program with you in connection with financial planning services provided on behalf of APS. Other TC Services' representatives may provide, among other things, education on financial solutions available at TIAA, including the Program, and referrals to Advisory Consultants or WMAs for such solutions. Unlike Advisory Consultants and WMAs, these other TC Services' representatives do not perform sales and client service activities for the Program, such as assisting clients with account servicing needs and answering questions during enrollment.

Where appropriate, Advisory Consultants, WMAs and other TC Services' representatives may recommend or refer you to the Program and will receive compensation as a result of your participation in the Program. Their compensation is comprised of a salary and an annual variable bonus that is based on the financial performance of TIAA and its affiliates, as well as the individual's performance, among other factors. Individual performance is measured differently for Advisory Consultants, WMAs and other TC Services' representatives.

Advisory Consultants and WMAs receive compensation for the opening and funding of new accounts, products and services at TIAA. WMAs also receive compensation for the retention of client assets in TIAA accounts. WMAs and Advisory Consultants are acting as broker-dealer registered representatives when discussing accounts, products, services and/or providing brokerage execution services.

The individual performance of Advisory Consultants is assessed using quantitative metrics, such as client survey results, number of referrals, success in annuitizing certain holdings within an employer sponsored retirement plan record kept at TIAA or within a TIAA IRA, and financial results. Financial results consist of gathering client assets in appropriate TIAA products, services and accounts, including the Program, and rewards Advisory Consultants for successful enrollment, education or referral efforts, regardless of the TIAA product. Several qualitative factors are also considered, such as leadership, teamwork, and adherence to company policies and regulatory standards. Advisory Consultants cannot receive more compensation for recommending the Program over other TIAA investment solutions or products.

For WMAs, individual performance is generally based on quantitative metrics such as the WMA's success in gathering, retaining and consolidating client assets on the TIAA platform. Several qualitative factors are also considered, such as leadership, teamwork, positive client experience and adherence to company policies and regulatory standards. WMAs are compensated for

recommending you to the Program. WMAs receive less compensation for recommending the Program than for recommending other more complex products or services available through TIAA.

For other TC Services' representatives, individual performance is assessed using quantitative and qualitative performance criteria, including client experience/satisfaction, teamwork and financial results. Financial result metrics measure and reward, among other things, successful client referrals by these other TC Services' representatives to Advisory Consultants or WMAs for the Program. Other TC Services' representatives cannot receive more compensation for successful referrals to the Program than for successful referrals to other products or services available through TIAA. Managers of these other TC Services' representatives are compensated based on qualitative metrics, such as their leadership abilities (which include training, monitoring, and oversight), as well as quantitative metrics, such as the performance (financial or otherwise) and productivity of their staff.

The compensation payable under the annual variable bonus creates a conflict of interest. It incentivizes Advisory Consultants and WMAs to recommend the Program to you, (or other TIAA accounts, products and services), and it incentivizes other TIAA representatives to refer you to Advisory Consultants or WMAs, who can recommend that you open a Program account. It also incentivizes managers of other TC Services representatives to encourage their staff to gather, retain and consolidate client assets on the TIAA platform.

We seek to address this conflict of interest by disclosing it to you and by requiring any recommendation for enrollment in the Program to undergo a review, as required under applicable regulatory standards, to determine whether recommendations they made are appropriate to meet a client's financial needs. Compensation does not differ based on the underlying investments held in your Program account, and none of the client-facing employees exercise investment discretion over your assets.

Engagement of Service Providers to Formulate Advice.

APS has engaged its affiliate, TIAA, FSB as well as a third-party provider to help formulate the advice provided through the Program. TIAA, FSB also trades securities for the Program. APS has entered into an agreement with which APS oversees as described under "*Review of Third-Party Service Providers and Sources of Investment Advice*" in Item 6. TIAA, FSB for these services and pays it a flat annual fee. TIAA, FSB selects the Program's asset allocation model portfolios and the Funds used in the management of your assets, engages in ongoing due diligence on such model portfolios and Funds, and provides trade execution of the Program's investment strategy through your brokerage account. An unaffiliated third-party provider is also engaged and compensated by TIAA, on behalf of APS and other affiliates, to provide asset allocations for use throughout the organization ("Allocation Provider").

After payment of these fees and other Program expenses, APS receives the remainder of the Program revenue. As described under "*Bank Sweep*" in this Item 4, TIAA, FSB will also receive compensation as part of the Affiliate Bank Sweep. Other TIAA affiliates serve as the investment advisers to the Affiliated Funds and receive fees from each such Affiliated Fund for their investment management services, as described under "*About TIAA*" in this Item 4.

Item 5 – Account Requirements and Types of Clients

As noted under "*Program Agreements*" in Item 4, the Program requires you to open a brokerage account with TIAA Brokerage Services. You must fund the Program account with a minimum of \$5,000 in cash or securities and grant APS investment discretion over your Program account. The Program may lower this Program account minimum at its discretion, in whole or in part, in connection with promotional campaigns or for any other reason. Additionally, TIAA Brokerage Services may offer

pricing discounts, bonus payments or other account related benefits and incentives to clients opening brokerage accounts to be enrolled in the Program (or for funding existing brokerage accounts enrolled in the Program) in connection with promotional campaigns or other reasons.

Deposits and Withdrawals

As described under “*Funding*” in Item 4, should you transfer securities into your Program account, the Program will either the securities upon receipt and use the proceeds to fund your Program account. Any sale could cause a taxable event to you or trigger contingent deferred sales charges. Additionally, for certain types of securities (such as securities that are not publicly traded, trade over the counter, are not traded on an exchange, are no longer quoted, or are not fully transferred), factors such as limited liquidity and limited pricing transparency and quotations may impact the price obtained when the assets are sold. APS may, however, at its discretion alter the order of how subsequent deposits are invested when required for purposes of meeting fund minimum investment requirements, tax optimization needs or other purposes consistent with your model portfolio.

You may establish automatic monthly or quarterly withdrawals. In such cases, securities held in your Program account will be sold as needed to fund the withdrawals, which may be a taxable event for clients not investing through an IRA or retirement account.

Upon receipt of a deposit or withdrawal request through the Site in good order, you will receive, with regards to mutual funds, the net asset values or price next available pursuant to the respective mutual funds’ prospectus. With regards to ETFs, the Program will generally trade these shares once a day and you will receive the price available in the marketplace at that time. A request is considered in good order when the Program possesses all information necessary to process the transaction. Such information includes the amount of the withdrawal, the distribution method requested and any form required to facilitate the distribution. A delay in the placement of certain trades and settlement of such trades may result depending upon the availability of your funds and accompanying information. The Program may withhold from any withdrawal an amount equal to any tax required by law.

The Program will hold proceeds from dividends and interest payments in strategically allocated cash and will rebalance material excess cash into positions that are underweighted in your Program account. The Program will also generally direct mutual fund capital gains distributions to strategically allocated cash and will rebalance material excess cash into positions that are underweighted in your Program account.

Termination

You may terminate your participation in the Program at any time upon notice to APS. APS may terminate your enrollment in the Program at any time effective upon providing electronic written notice to you. APS specifically reserves the right to terminate your participation in the Program should your balance fall below the Program’s minimum balance of \$5,000 due to your initiated withdrawals or should APS determine that the Program is no longer appropriate for you. APS will terminate your participation in the Program should you change residency to a non-US address.

Upon termination from the Program, APS will cease managing your Program account and collect any fees owing for management services provided through the date of termination. You, thereafter, must direct the Program to transfer assets out of your Program account within 30 days by contacting an Advisory Consultant at 844-362-8422. Once your directions to transfer assets are received, the transfer may take 30 days or more to occur. Should you fail to direct such transfer APS will, at its discretion, and within a reasonable timeframe, either transfer the assets to a separate, self-directed TIAA Brokerage Services brokerage account registered identically to the Program account, containing the same securities as the Program account and subject to the standard brokerage account transaction fee schedule, or in the

alternative, redeem the assets and mail a check for the proceeds to you. Such redemptions may result in a taxable event to you. APS' decision to transfer your assets into a separate, self-directed TIAA Brokerage Services account instead of redeeming them and mailing a check to you creates a conflict of interest because it allows APS to keep the funds within TIAA products and investments, including the TIAA-CREF family of Funds and the Affiliate Bank Sweep, for which it earns compensation and within other third party investments for which TC Services may earn compensation. APS seeks to mitigate this conflict by providing you with notification and the option to direct a transfer or liquidation of your assets.

Any liquidations resulting from your instruction to terminate and liquidate your Program account may not occur until two business days following receipt of the instruction. Extreme market volatility and in process trades could impact this timing. The Program may invest in certain mutual fund share classes or other securities that cannot be held outside of the Program and these would need to be exchanged or sold upon termination from the Program, which may be a taxable event if you are not investing through an IRA.

Types of Clients

The Program's clients primarily consist of individuals who have a pre-existing relationship with TIAA, often by participating within a TIAA-administered, employer-sponsored retirement plan, such as a 403(b) plan. However, the Program's clients also include individuals without a pre-existing relationship.

Item 6 – Portfolio Manager Selection and Evaluation

The specific asset allocation and Funds selected for your Program account are based solely on the information you provide through the Site in connection with your Program account, including preferences for an Investing Style, as described here. The Program will continue to rely on such information in managing your Program account. Therefore, it is important that the information you provide through the Site is accurate and complete and that you update that information promptly if it changes. APS will not independently verify any information you provide through the Site. While the Site may allow you to enter information regarding Other Accounts, APS uses that information solely for the purpose of calculating your potential retirement income in connection with the Retirement Check-Up tool. The Program will not consider information about your Other Accounts in managing your Program account. The Program also does not manage any of your Other Accounts, nor does it monitor assets you hold outside of the Program.

The Program may include additional preferences from time to time with notice to you of any material modifications. The Funds that APS anticipates using to construct your Program account will be set forth in the Investment Strategy Proposal that you receive at the time of Program enrollment, but are subject to change at any time, including between the date on which the Investment Strategy Proposal is generated and when you fund your Program account. Such changes are reflected in the periodic statements that you receive in connection with your Program account. You may also view your Program account holdings online.

You may impose reasonable restrictions (also referred to as “personalizations”) on your Program account as described under “Investment Restrictions” in Item 4.

Investing Styles

The Program is designed to allow you to express a preference for certain Investing Styles. The Investing Styles may be modified or eliminated from time to time with notice to you of any material

modifications. The Investing Style you select informs the model portfolio used for your Program account. You may only select one of these Investing Styles. You may change your Investing Style at any time through the Site, but you should consider the possibility that certain changes would require the sale of assets that could trigger a taxable event to you. You should consult with a tax advisor. Neither APS nor the Advisory Consultants provide tax advice.

The current Investing Styles available through the Program and additional information about the impact of these Investing Styles on the allocation to Affiliated Funds are set forth here.

Description of Investing Styles.

- **Basic Portfolio:** You may specify a preference for a model portfolio consisting of mostly passive Fund managers that attempt to match the performance and risk of the market while focusing on minimizing investment expenses (“Passive Fund Managers”). Passive Fund Managers typically seek to replicate market returns and risk of an index. Your preference for Passive Fund Managers generally will result in a model portfolio consisting of predominantly (or exclusively) Passive Fund Managers.
- **Insight Portfolio:** You may specify a preference for a model portfolio consisting of mostly actively managed Funds in an attempt to deliver better (either in terms of higher returns and/or reduced risk) performance than the market in general. Active Fund managers typically research individual securities in an attempt to beat the performance of the manager’s stated market benchmark. There is no guarantee that active Fund managers will be able to deliver returns that are higher than those of the market, even if they have done so in the past. Your preference for a model portfolio consisting of active Fund managers generally will result in a model portfolio consisting of predominantly (or exclusively) active Fund managers. Because actively managed funds are not selected for the Program based on the Fund’s expense ratio (as noted under “*Portfolio Construction*” in this Item 6) and typically have higher expense ratios than passive funds, the Insight Investing Style will result in your portfolio consisting of funds with higher expense ratios than the Basic Investing Style.
- **Impact Portfolio:** You may specify a preference for a model portfolio consisting mostly of active managers that are focused on investing in socially responsible companies (i.e., those that seek to promote broader economic development, positive and social outcomes and a healthier environment). Fund managers that consider social factors may not be available for all asset classes in the model portfolio and typically invest in a more limited set of companies than other Fund managers, which may have a positive or negative impact on their relative performance. Because actively managed funds are not selected for the Program based on the Fund’s expense ratio (as noted under “*Portfolio Construction*” in this Item 6) and typically have higher expense ratios than passive funds, the Impact Investing Style will result in your portfolio consisting of funds with higher expense ratios than the Basic Investing Style. In addition, because the TIAA-CREF family of Funds sponsors and manages mutual funds with socially responsible investment mandates, Affiliated Funds may be selected for your portfolio when you choose the Impact Investing Style. For a description of the conflict of interest arising from use of Affiliated Funds in Program accounts, see “*Use of Affiliated Funds and Two Levels of Fees*” in Item 4 and “*Investing Styles and Affiliated Funds*” in this Item 6.

Investing Styles and Affiliated Funds.

As described in Item 4, if you select the Impact Investing Style or Basic Investing Style your Program account will be invested in Affiliated Funds. If you select the Insight Investing Style your Program

account will not be invested in Affiliated Funds at this time, but may be invested in Affiliated Funds at a future date without notice to you. On or about the date of this Disclosure Brochure, the amount targeted to be invested in Affiliated Funds in the Impact Investing Style model portfolios ranges between approximately 27% and 79% of the composition of these model portfolios. On or about the date of this Disclosure Brochure, the amount targeted to be invested in Affiliated Funds in the Basic Investing Style model portfolios ranges between approximately 19% and 53% of the composition of these model portfolios. Where your particular Program account falls within the range depends on your risk level and investment timeframe. These ranges are provided for informational purposes only and may be modified from time to time without notice to you at APS' discretion subject to the Fund selection methodology described under "*Portfolio Construction*" in this Item 6. The actual amount of your Program account assets invested in Affiliated Funds will be higher or lower than that of your model for reasons including, without limitation, client directed activity (such as deposits or withdrawals), market action and operational considerations. Please see your Investment Strategy Proposal, account statements, account information on the Site, or contact an Advisory Consultant for the composition of your Program account holdings and your specific percentage allocation to each investment in your Program account, including Affiliated Funds.

Review of Third-Party Service Providers and Sources of Investment Advice

As described under "*Engagement of Service Providers to Formulate Advice*" in Item 4, APS has engaged another entity, TIAA, FSB to help formulate the advice provided through the Program.

On a quarterly basis, APS reviews the list of Funds selected by TIAA, FSB. APS also reviews the share class selections made by TIAA, FSB as needed. APS will replace TIAA, FSB should it determine that TIAA, FSB is no longer performing satisfactorily. APS will base any decision to retain or replace TIAA, FSB on the quality and continued value of its services.

APS' use of an affiliated entity, TIAA, FSB, presents a conflict of interest for APS because a greater portion of your fee remains within the TIAA family of companies than if APS used a third party to provide these services. APS seeks to address this conflict of interest through disclosure of the conflict in this Disclosure Brochure, and through reviews of TIAA, FSB's services. APS' use of TIAA, FSB also could present a conflict of interest as TIAA, FSB could use its discretion to invest your assets in Affiliated Funds that would provide TIAA with greater aggregate revenue than through the use of unaffiliated Funds. To address this possible conflict, APS compensates TIAA, FSB without regard to the affiliation of the Funds selected. Moreover, APS imposes no limitations or minimum purchase requirements upon TIAA, FSB concerning the use of Affiliated Funds.

Methods of Analysis, Investment Strategies and Risk of Loss

The Program adheres to long-term investing principles to build a model portfolio of diversified holdings for you. As described under "*Model-Based Portfolios*" in Item 4, the Program offers a number of model portfolios to meet a range of investor needs. APS has engaged TIAA, FSB to formulate the model portfolios for the Program subject to APS' oversight described under "*Review of Third-Party Service Providers and Sources of Investment Advice*" in this Item 6.

Portfolio Construction.

The Program's advice that is generated by TIAA, FSB is based upon a long-term investment philosophy analyzed through a combination of quantitative and qualitative investment methodologies. The advice is generated in three stages: (i) the creation of strategic asset allocations, (ii) the selection of Funds eligible for use in the Program's models ("Reference List Investments"), and (iii) the insertion of Reference List Investments into the Program's model portfolios.

Creation of Strategic Asset Allocations: TIAA, FSB establishes and updates strategic asset allocations for the Program following a similar process that TIAA, FSB uses for other affiliates and its own managed account clients. The process starts with capital market assumptions and corresponding asset allocations from the Allocation Provider. These assumptions and allocations are then quantitatively and qualitatively analyzed to determine the set of allocations that TIAA, FSB believes best align to the available risk levels and Investing Styles. TIAA, FSB generally uses the asset classes assigned by the Allocation Provider available in the Program, but TIAA, FSB can choose to include or exclude certain asset classes at its discretion, and has an incentive to select asset class categories represented by its Affiliated Funds. For a description of the conflict of interest arising from use of Affiliated Funds in Program accounts, see “*Use of Affiliated Funds and Two Levels of Fees*” above in Item 4. Senior investment professionals from TIAA, FSB are responsible for approving the asset allocations for use in the Program. While APS does not independently approve these asset allocations, it meets periodically with a designee of TIAA, FSB to review them. APS also reviews the asset allocation models for consistency with TIAA, FSB’s policies and procedures.

Selection of Reference List Investments: TIAA, FSB chooses the Reference List Investments from the Universe defined under “*Portfolio Investments*” in Item 4 that can be used for each asset class targeted for a strategic asset allocation. Only Funds that represent each of those asset classes are eligible for evaluation. While TIAA, FSB generally accepts the asset class categories designated by the Allocation Provider, it can adjust the categorization from time to time to exclude a Fund from or include a Fund in the asset class, at its discretion. This could potentially result in an Affiliated Fund comparing more (or less) favorably to the other Funds being considered as Reference List Investments for that asset class. For a description of the conflict of interest arising from use of Affiliated Funds in Program accounts, see “*Use of Affiliated Funds and Two Levels of Fees*” in Item 4.

The selection methodology used to determine whether a Fund becomes a Reference List Investment differs based on whether the Fund is actively managed or managed using a passive investment strategies (*i.e.*, index funds) (“passively managed”).

Actively Managed Funds: When initiating a search for an actively managed Fund to comprise an asset class, TIAA, FSB applies a proprietary quantitative scoring system to identify a subset of Funds for further evaluation, and then applies qualitative criteria to select amongst the narrowed list of Funds. The proprietary quantitative scoring system analyzes a variety of factors to identify Funds that have historically performed well versus their peers in falling markets, rising markets or both for the asset class. Past performance does not guarantee future results. Actively managed Funds that have at least a 36-month manager tenure and rank within the top two quintiles when the proprietary quantitative scoring system is applied are eligible for further evaluation on the basis of various qualitative factors. The qualitative factors include, but are not limited to, organizational stability, the quality of investment personnel, investment and risk management processes, capacity, regulatory compliance profile and other analytical criteria. The Fund’s expense ratio does not influence the selection of actively managed Funds for use as Reference List Investments.

When an actively managed Fund becomes a Reference List Investment, TIAA, FSB monitors it in accordance with its long-term investment philosophy. Actively managed Reference List Investments are periodically reviewed for use based on the Funds’ ongoing performance and the continued support of qualitative factors. These Funds will be removed if they fail to perform against the benchmark over an extended period of time and/or fail to be supportable by qualitative factors. Funds slated for removal as Reference List Investments will be removed from model portfolios when operationally feasible at the discretion of TIAA, FSB (as further described under “*Inclusion of Reference List Investment in the Model Portfolios*” in this Item 6). Whenever a Reference List Investment requires replacement, a search is initiated for a new fund in the asset class in the manner described here. In addition, approximately

every four years from a Fund's selection as a Reference List Investment it is evaluated for continued use against other actively managed Funds in the same asset class that rank within the top two quintiles of the proprietary quantitative scoring system.

Passively Managed Funds: When initiating a search for a passively managed Fund to comprise an asset class, TIAA, FSB conducts a quantitative assessment of the accuracy with which the Fund replicates the performance of the benchmark index assigned to the asset class over the most recent 2-year period. While TIAA, FSB generally accepts the benchmark index of that Fund, as determined by the Allocation Provider or the Fund prospectus, it can adjust the assigned benchmark index from time to time, at its discretion, and has an incentive to select as the benchmark the index tracked by its Affiliated Funds. For a description of the conflict of interest arising from use of Affiliated Funds in Program accounts, see *"Use of Affiliated Funds and Two Levels of Fees"* in Item 4.

Among the passively managed Funds that meet the minimum quantitative replication criteria and liquidity thresholds (as determined by TIAA, FSB at its discretion), TIAA, FSB selects the Fund with the lowest expense ratio, unless such Fund is disqualified on the basis of qualitative factors, in which case the next lowest expense ratio Fund will be selected. Those qualitative factors include, but are not limited to, considerations of the Fund's tax efficiency, securities lending practices, business and regulatory concerns associated with the Fund provider, fair value pricing for mutual funds, and historic premium or discount to net asset value for ETFs. For IRAs, the determination of "lowest expense ratio" will not take into consideration the Affiliated Fund fee credit described under *"Affiliated Fund Fee Credit – for IRAs"* in Item 4. The Program will also not select a separate Reference List Investment for its tax exempt accounts than for its taxable accounts.

When a passively managed Fund becomes a Reference List Investment, TIAA, FSB periodically reviews it to reconfirm that it meets the minimum quantitative replication criteria and, liquidity thresholds, and is still the lowest cost passively managed Fund that is not disqualified on the basis of qualitative factors. Should a Fund fall below the minimum quantitative replication criteria and liquidity thresholds or no longer be the lowest cost in its asset class, it will be removed as a Reference List Investment and replaced, as needed, through a search initiated for the asset class in the same manner as described here. Funds slated for removal as Reference List Investments will be removed from model portfolios when operationally feasible at the discretion of TIAA, FSB (as further described under *"Inclusion of Reference List Investment in the Model Portfolios"* in this Item 6).

Oversight of Reference List Investments: Additions to and removals from the Reference List Investments are reviewed and approved by senior investment professionals from TIAA, FSB. The quantitative and qualitative criteria for adding and removing Funds from Reference List Investments and any required exceptions to the process outlined here are also approved by senior investment professionals from TIAA, FSB, annually and upon material changes. APS also reviews updates to the Reference List Investments. APS conducts a review of the Funds recommended by TIAA, FSB quarterly. There are other funds and strategies approved by senior investment professionals from TIAA, FSB for use by affiliates and their clients that are not made available as Reference List Investments to the Program.

Inclusion of Reference List Investments in the Model Portfolios: A team of portfolio managers at TIAA, FSB selects the combination of Funds from the Reference List Investments that, in its view, balances the risk levels and Investing Styles of the Program. Clients with the same risk level, Investing Style and account type will receive the same combination of Funds (unless a client decides to request reasonable restrictions or other modifications to the management of their Program account, as described under *"Investment Restrictions"* in Item 4).

The initial selection of Funds from the Reference List Investments used to construct the model portfolios is based on a review of the strategic allocation associated with each Investing Style and selection of Funds from the Reference List Investments. The initial selection is based on the portfolio management team's judgment of how different combinations of Funds can achieve exposure to each asset class targeted for a strategic asset allocation, while also limiting the correlation among the investments, and also meeting the Investing Styles for mostly active, mostly passive and mostly social Funds. An assessment is made periodically to determine whether the Funds in the model portfolios should continue to be used or replaced by other Reference List Investments. In selecting Funds to complete the model for each Investing Style, the portfolio management team is directed to consider the same factors when selecting Affiliated Funds and unaffiliated Funds for allocations. Because TIAA affiliates manufacture, advise and distribute Affiliated Funds, TIAA has an interest in the Program recommending a higher investment allocation to Affiliated Funds, and Affiliated Funds are frequently included in many of the Program's model portfolios as described under "*Investing Styles and Affiliated Funds*" in this Item 6. For a description of the conflicts of interest arising from the investment of Program accounts in Affiliated Funds and the additional fees TIAA and its affiliates receive from the use of Affiliated Funds in the Program, see "*Use of Affiliated Funds and Two Levels of Fees*" in Item 4.

Program Limitations: Typically, a single Reference List Investment cannot be used to make up more than 60% of any portfolio.

All Program accounts in an Investing Style are invested in the same model portfolio regardless of the timing of investments. The Program will not select a separate Reference List Investment to receive inflows while retaining another in the same model. The Program will also not select a separate Reference List Investment for its tax exempt accounts than for its taxable accounts.

Once a Reference List Investment is designated for inflows or outflows, the decision can be implemented immediately or over an extended period of time at the discretion of TIAA, FSB. Considerations include, without limitation, operational considerations, legal considerations, client-directed activity, and input from the Funds marked for asset flows. Please see "*Trade Randomization and Aggregation*" in Item 4 for additional information on the implementation of trades and "*Discretionary Authority*" in Item 4 for a description of discretionary authority granted to the Program and delegated to TIAA, FSB, subject to APS oversight.

The Program's model portfolios contain a combination of Funds that represent, depending on the Fund, indirect investments in equity, fixed income, and to a lesser extent, derivative investments, alternative investment strategies and non-traditional asset classes. For all Funds, the return and principal value will fluctuate with changes in market conditions. In addition, shares when sold may be worth more or less than their original cost. Note that the Program does not offer a margin trading strategy.

Risks of Investing in the Program

The following is a general description of risks associated with investing in the Program. The following list does not purport to be an exhaustive list of all risk factors associated with the Program.

Investment Risks

- **Market Risk:** The price of any security or the value of an entire asset class can decline for a variety of reasons outside of the Program's control, including, but not limited to, changes in the macroeconomic environment, unpredictable market sentiment, forecasted or unforeseen economic developments, interest rates, regulatory changes, and domestic or foreign political, epidemic, pandemic, demographic, or social events. For example, if a client has a high

allocation to a particular asset class, and that asset class underperforms relative to the overall market, their Program account may be negatively impacted. Additionally, a low allocation to a particular asset class that outperforms other asset classes will cause the Program account to underperform relative to the overall market.

- **Global Economic Risk:** National and regional economies and financial markets are becoming increasingly interconnected, which increases the possibilities that conditions in one country, region or market might adversely impact issuers in a different country, region or market. Changes in legal, political, regulatory, tax and economic conditions may cause fluctuations in markets and securities prices around the world, which could negatively impact the value of an account's investments. Major economic or political disruptions, particularly in large economies, may have global negative economic and market repercussions. Additionally, events such as war, terrorism, natural and environmental disasters and the spread of infectious illnesses or other public health emergencies may adversely affect the global economy and the markets and issuers in which an account invests. These events could reduce consumer demand or economic output, result in market closure, travel restrictions or quarantines, and generally have a significant impact on the economy. Such events could materially increase risks, including market and liquidity risk, and significantly reduce account values. These events could also impair the information technology and other operational systems upon which service providers, including APS, rely, and could otherwise disrupt the ability of employees of service providers to perform essential tasks on behalf of an account. There is no assurance that governmental and quasi-governmental authorities and regulators will provide constructive and effective intervention when facing a major economic, political or social disruption, disaster or other public emergency.
- **Mutual Funds and ETFs (Funds):** Investing in shares of a Fund involves risk of loss that Program clients should be prepared to bear. For mutual funds and ETFs in particular, this includes the risk that the general level of underlying security prices may decline, thereby adversely affecting the value of the Fund. Moreover, a Fund may not fully replicate the performance of its benchmark index. Funds are not guaranteed or insured by the FDIC or any other government agency. Funds have their own fees, investments and risks. For specific information associated with any Fund used by the Program for your account, please consult the Fund's prospectus and statement of additional information, which you should read carefully.
- **Model Risks:** The assumptions made in the construction of the models may limit their effectiveness. For example, use of historical market data may not predict future events. Additionally, inaccuracies or limitations in the quantitative analysis or models used by the Program may interfere with the implementation of model portfolio strategy.
- **Asset Allocation and Investment Strategy Risks:** The asset classes used within the various model portfolios offered through the Program can perform differently over time and potentially underperform the Program's expectations. More aggressive strategies used within the model portfolios generally contain larger weightings of riskier asset classes such as equities.
- **Liquidity Risks:** Program clients collectively account for a significant portion of certain ETF or mutual fund assets (in some cases, in excess of 50%). As a result, when the Program requests a liquidation, mutual funds can require the Program to liquidate in kind (i.e., the Program would receive a distribution of securities, rather than cash, which it would need to liquidate directly) or over an extended period of time. Further, mutual funds may "gate" during times of market stress or otherwise allocate liquidity among investors seeking to redeem, which can further delay the Program's Ability to reduce or redeem out of such positions. Additionally, when the

Program aims to liquidate large positions in an ETF that has less liquid underlying investments it can create pricing gaps, which the Program may mitigate by buying and selling the ETF over an extended period of time. These scenarios create a risk that the mutual fund or ETF is not sold in a timely manner at the desired price.

- **Concentration Risk.** Program clients collectively account for a significant portion of certain ETF or mutual fund assets (in some cases, in excess of 50%) and a decision by the Program to sell the shares of the ETF or mutual fund may negatively impact the value of the ETF or mutual fund. In addition, managed account programs operated by TIAA Affiliates (including TIAA, FSB) often own material positions in these same ETF and mutual funds, which increases the collective ownership by TIAA and heightens this risk.
- **Cybersecurity Risks:** With the increased use of technologies such as the Internet to conduct business, client portfolios are susceptible to operational, information security and related risks. In general, cyber incidents can result from deliberate attacks or unintentional events that include, but are not limited to, gaining unauthorized access to digital systems, misappropriating assets or sensitive information, corrupting data, or causing operational disruption, including the denial-of-service attacks on websites. Cyber security failures or breaches by a third-party service provider and the issuers of securities in which the model portfolio invests, have the ability to cause disruptions and impact business operations, potentially resulting in financial losses, the inability to transact business, violations of applicable privacy and other laws, regulatory fines, penalties, reputational damage, reimbursement or other compensation costs, and/or additional compliance costs, including the cost to prevent cyber incidents.
- **Reliance on Limited Client Information:** The asset allocation recommendations generated through the Program are highly reliant on the accuracy of the information provided by you through the Site regarding your goal, time horizon, risk level, and Investing Style. If you were to provide the Program with inaccurate information, this could materially impact the quality and applicability of the recommendations generated. In addition, the recommendations generated through the Program rely exclusively on your responses to the questions regarding your goal, time horizon, risk level and Investing Style asked through the Site. Any additional information gathered is not used in developing the recommendations provided through the Program. Also, there may be additional information or other financial circumstances not considered based on the questions asked at the time you establish your investment goals that would inform the investment advice and recommendations provided through the Program. Given the inherent limitations of the Program, you should carefully consider whether the Program is the right investment solution for your needs.
- **Reliance on Technology:** The offerings within the Program are dependent upon various computer and telecommunication technologies, many of which are provided by or are dependent on third parties. The successful operation of the Program could be severely compromised by system or component failure, telecommunication failure, power loss, a software-related system crash, unauthorized system access or use (such as “hacking”), computer viruses and similar programs, fire or water damage, human errors in using or accessing relevant systems, or various other events or circumstances. It is not possible to provide comprehensive and foolproof protection against all such events, and no assurance can be given about the ability of applicable third parties to continue providing their services. Any event that interrupts such computer and/or telecommunication systems or operations could have a material adverse effect on the Program. Such a material adverse effect may have a heightened impact on the Program given the automated nature of the services provided.

- ***Hypothetical Performance and Projected Returns:*** Projected returns are hypothetical, do not reflect actual investment results, and are not guarantees of future results. Such projected performance is subject to a number of limitations and assumptions designed to determine the probability or likelihood of a particular investment outcome based on a range of possible outcomes. It is possible that any of those assumptions may prove not to be accurate. In addition, performance of your Program account may differ materially from investment gains and avoidance of investment losses projected, described or otherwise referenced in forward-looking statements, and the projected returns associated with any particular asset allocation or model portfolio may not materialize. The assumptions underlying the hypothetical performance and projected returns provided on the Site are disclosed to you on the Site and will change over time and from time to time. You should read all disclosures associated with these projections on an ongoing basis.
- ***Limitations of Risk Disclosures.*** As the strategies develop and change over time, clients may be subject to additional and different risk factors, therefore the above list of risks is not a complete enumeration or explanation of the risks involved in investment in Program. No assurance can be made that profits will be achieved or that substantial losses will not be incurred.

Performance-based Fees and Side by Side Management

APS does not charge performance-based fees, which are fees based on a share of an account's capital gains or appreciation, to its Program clients or any other clients.

Voting Client Securities

Proxies are voted by the TIAA's Responsible Investing team unless you request otherwise by calling an Advisory Consultant at 844-362-8422, in which event the proxy materials will be sent directly to you. In voting your proxies, TIAA's Responsible Investing team follows the guidelines set forth in the TIAA Policy Statement on Corporate Responsible Investing. Any conflicts of interest identified are resolved through guidelines set forth in TIAA's Responsible Investing team's Conflict of Interest procedures. The TIAA Responsible Investing team works with third-party proxy advisory firm and a proxy execution firm to vote your proxies. The Program reviews the proxy voting practices of TIAA's Responsible Investing team periodically to ensure that they are acting in clients' best interest.

You cannot direct the Program on how to vote on a particular proxy; you must either delegate all proxy voting to the Program on your behalf or wholly retain voting privileges.

You may obtain information about how TIAA's Responsible Investing team voted with respect to any security by calling an Advisory Consultant. You may also obtain a copy of the applicable proxy voting policies and procedures, as well as the TIAA Policy Statement on Corporate Responsible Investing, by calling an Advisory Consultant. The Program will not and does not undertake to act on your behalf with regards to class action claims or notices and instead will forward any such claims or notices directly to you for handling. The Program will pass through for you to vote directly any voluntary corporate action notices.

Other Advisory Services

APS and TIAA, FSB offer other managed account programs such as the TIAA Portfolio Advisor program offered through APS and the Private Asset Management program offered through TIAA, FSB. Different managed account programs have different fee structures and service offerings than the Program and have access to different Funds, asset classes and/or share classes of Funds than those available through the Program. These differences are based on the level and type of services offered by each program, the service providers and platforms used in each program and the amount of a client's

assets under management, among other factors. Information about managed account programs offered by APS and its affiliate can be obtained through an Advisory Consultant.

Positions taken by APS or TIAA, FSB on behalf of some managed account clients may be the same as, or different from, or made contemporaneously or at different times than, positions taken for other clients. TIAA, FSB's investment decisions for the Program are based on research or other information that is also used to support its investment recommendations for other clients, and it may be perceived as a conflict of interest when advice differs for their accounts that use strategies similar to those used by Program accounts, especially if the investment decision results in TIAA retaining more of the Program Fee as described under "*Model-Based Portfolios*" and "*Portfolio Investments*" in Item 4 above. APS seeks to identify and mitigate or disclose actual and perceived conflicts of interest with clients and to resolve such conflicts appropriately if they do occur.

APS also offers separately from the Program non-discretionary financial planning services with an emphasis on retirement planning needs. Retirement planning helps clients invest for retirement and address income needs. Retirement planning is generally limited to providing advice across fixed annuities, variable annuities, mutual funds and ETFs. These services are described in greater detail in the Advice & Planning Services' Financial Planning Services Disclosure Brochure.

Item 7 – Client Information Provided to Portfolio Managers

As described under "*Engagement of Service Providers to Formulate Investment Advice*" in Item 4, APS has engaged TIAA, FSB to provide portfolio management services. To facilitate this, APS provides the following information to TIAA, FSB in connection with your Program account: your risk level (levels ranging from conservative to aggressive), timeframe and preference among Investing Styles. APS will pass through to TIAA, FSB any updates to this information as received by you. APS does not provide your personal data to the Allocation Provider.

Item 8 – Client Contact with Portfolio Managers

The Program does not generally contemplate that you will speak directly with the TIAA investment professionals responsible for the formulation of Program advice; however, they may be made available upon specific request. Rather, Advisory Consultants knowledgeable about the Program and its advice will be available during normal business hours to discuss any aspect of the Program with you.

Item 9 – Additional Information

Disciplinary Information and Information about Other Financial Industry Activities and Affiliations

On March 11, 2019, the SEC issued an order regarding conduct TC Services had self-reported to the SEC in connection with the SEC's Share Class Selection Disclosure Initiative (the "Initiative"). Without admitting or denying the findings, TC Services consented to the entry of an order (the "Settlement Order") finding that it violated Sections 206(2) and 207 of the Advisers Act by not adequately disclosing to clients enrolled in the Portfolio Advisor and Portfolio Manager programs certain conflicts of interest related to its receipt of Rule 12b-1 fees and selection of mutual fund share classes that pay such fees. Pursuant to the Settlement Order, TC Services consented to a censure and was ordered to cease and desist from committing or causing further violations of Sections 206(2) and 207 of the Advisers Act. TC Services also was ordered to disgorge a total of \$2,102,280.21 in Rule 12b-1 fees received, plus \$293,342.08 in prejudgment interest, to affected investors and to notify affected investors of the Settlement Order's terms including the following undertakings: (1) review and correct

as necessary all relevant disclosure documents concerning mutual fund share class selection and Rule 12b-1 fees; (2) evaluate whether existing clients should be moved to a lower-cost share class and to move clients as necessary; and (3) evaluate, update and review for the effectiveness of their implementation, TC Services policies and procedures to assure that they are reasonably designed to prevent violations of the Advisers Act in connection with disclosures regarding mutual fund share class selection. The SEC did not impose a civil penalty on TC Services based on TC Services self-reporting through the Initiative.

On November 22, 2016, TC Services entered into a settlement, known as a letter of acceptance, waiver and consent (“AWC”) with FINRA, a self-regulatory organization for broker-dealers. The settlement related to how it confirmed transactions it effected between 2004 and 2015 for employer retirement plans record-kept by TIAA. TC Services accepted and consented to the entry of findings (without admitting or denying the findings) that it failed to deliver confirmations for certain transactions and delayed delivery of confirmations due to technological issues and ambiguities in a vendor contract, and did not denote the firm’s capacity as agent on certain confirmations, resulting in violations of Securities Exchange Act Rule 10b-10, NASD Rule 2230 and FINRA Rule 2232 related to customer confirmations, and NASD Rule 2110 and FINRA Rule 2010 related to standards of commercial honor and principles of trade. TC Services further consented to a censure and fine of \$275,000. The activity subject to the settlement was not related to APS’ investment advisory programs. In resolving the matter, FINRA recognized that TC Services: (1) timely self-reported the foregoing confirmation issues to FINRA; (2) prior to detection or intervention by a regulator, engaged outside counsel and an independent consultant to conduct an internal forensic investigation of the relevant issues; (3) promptly took corrective action and revised its policies and procedures regarding confirmation production and delivery; (4) hired additional staff dedicated to ensuring proper confirmation production and delivery; and (5) provided substantial assistance to FINRA by sharing the results of its internal investigation and voluntarily and promptly providing updates regarding additional confirmation delivery issues discovered during its internal investigation.

TC Services is also registered with the SEC as a broker-dealer. TIAA is the sole owner of TC Services and provides a variety of services that are material to TC Services’ investment advisory activities, including administrative, legal and marketing support. All TC Services personnel are employees of TIAA. Certain officers and directors of TC Services may also serve in similar capacities with other affiliated investment advisers. TC Services has also entered into an arrangement with TIAA, FSB whereby TIAA, FSB employees help to formulate the advice for the Program. TIAA, FSB is also wholly owned by TIAA. These relationships may result in conflicts of interest described throughout the Disclosure Brochure and are mitigated through such disclosures.

Code of Ethics, Participation or Interest in Client Transactions and Personal Trading

APS has a Code of Ethics and Personal Trading Policy that regulates the personal securities trading activities of investment personnel and other persons with access to confidential trading information (collectively “access persons”) and requires them to avoid conflicts of interest, such as investing in or making additional contributions to investments that are branded, sponsored, advised or sub-advised by TIAA or its affiliates. All access persons and members of their households must report their personal holdings and transactions in covered securities. Certain access persons are subject to certain restrictions and prohibitions in trading for their own accounts, and are subject to pre-clearance of certain securities transactions by a compliance unit. The Code of Ethics and Personal Trading Policy also prohibits the misuse of material nonpublic information and confidential information. APS prohibits or limits the purchase of securities in initial public offerings and private placements. Advisory Consultants may purchase or sell for their personal account securities recommended to you subject to the limitations of

the aforementioned Personal Trading Policy. TIAA, FSB, which trades securities for the Program, has a similar policy. You may request a copy of APS' Code of Ethics and Personal Trading Policy by calling an Advisory Consultant.

SEC rules require broker-dealers to maintain a minimum amount of working capital. TC Services may invest this working capital in money market mutual funds, mortgage-backed securities, investment grade corporate bonds or U.S. Treasury Securities. Except for securities invested for this limited purpose, TC Services does not generally buy or sell its own securities that it may recommend to you.

Review of Accounts

Upon initial enrollment, an APS supervisor will review your participation in the Program to verify it is appropriate for you.

Quarterly, the Program will provide a Communication to you to inquire whether there have been any material changes in your life or finances that should be reflected in the information provided to the Program, and whether you wish to impose or modify any reasonable restrictions (also referred to as "personalizations") on the management of your Program account as described under "*Investment Restrictions*" in Item 4. It will encourage you to verify your goal amount, risk level and investment timeframe or make changes to this information on the Site. The Program will consider your responses and evaluate whether any changes to the model portfolio used for your Program account are appropriate. In between quarterly inquiries, you can update your Program account profile on the Site whenever a material change occurs in your financial situation or investment objective, as either may affect the continued appropriateness of the model portfolio used for your Program account. Examples of material changes include, but are not limited to changes in net worth, employment status, marital status, family size, occupation, residence, health or income level, investment objective or risk level.

Your Program account is monitored daily using performance data obtained from an independent third party. Market conditions and other factors will likely cause your Program account to deviate over time from the recommended model portfolio.

You will receive a monthly or quarterly brokerage statement (depending upon Program account activity) detailing the progress of your Program account. You will also receive separate brokerage confirmation statements reflecting individual transactions made in your Program account unless you elect to suppress these statements. If you would like to suppress these confirmation statements with a quarterly confirmation report summarizing all information otherwise contained in the separate brokerage confirmation statements, please contact an Advisory Consultant at 844-362-8422. You are able to change your election at any time. You are responsible for reviewing each report and statement in a timely manner and alerting an Advisory Consultant as to any discrepancy. The Site will provide information, updated daily, regarding your Program account based upon uniform criteria consistent with generally accepted industry standards. You will receive mutual fund prospectuses for each new mutual fund purchased for your Program account and are responsible for reviewing the terms and conditions contained therein.

All written information, including, but not limited to your reports, statements and confirmations will be delivered to you in electronic format as described under "*Program Enrollment and the Site*" in Item 4, and in accordance with the terms of the Advisory Agreement.

Client Referrals and Other Compensation

In connection with other services provided to you outside of the Program, Advisory Consultants may recommend you invest in affiliated products and in non-advisory services offered by or through TIAA such as variable annuities, mutual funds, life insurance and deposit and lending products. TC Services

and its affiliates receive compensation for services they provide to these affiliated products, including but not limited to advisory, distribution and administrative services. Refer to the prospectuses and statements of additional information for the applicable affiliated product for a complete description of such fees and payments. Also, recommending affiliated products creates a conflict of interest because the TIAA family of companies receive more revenue when recommending affiliated products than when recommending unaffiliated products. Please refer to *“Use of Affiliated Funds and Two Levels of Fees”* and *“About TIAA”* in Item 4 for additional information about how these conflicts of interest and how they are addressed.

The compensation earned by Advisory Consultants and other TC Services personnel when providing and/or recommending the Program is described under *“Compensation of TC Services Personnel”* in Item 4. In addition, *“Share Class Selection”* and *“Program Fees – Other Fees and Expenses”* in Item 4 describes the payments that TC Services and its clearing firm, Pershing, receive from certain Affiliated Funds and unaffiliated mutual funds as compensation for distribution, shareholder and administrative services.

Financial Information

TC Services does not require or solicit prepayment of more than \$1,200 in fees per client six months or more in advance and, thus, has not included a balance sheet of its most recent fiscal year. TC Services is not aware of any financial condition that is reasonably likely to impair its ability to meet its contractual commitments to clients, nor has TC Services been the subject of a bankruptcy petition at any time during the past ten years.

Item 10 – Requirements for State Registered Advisers

TC Services is a federally registered investment adviser.

Biographies of TIAA, FSB Investment Management Personnel

The Brochure Supplements (each, a “Brochure Supplement”) that appear on the following pages contain the biographies of those affiliated investment personnel who manage assets invested in the TIAA Personal Portfolio Wrap Fee Program (“Program”) on behalf of Advice and Planning Services (“APS”), the division of TIAA-CREF Individual & Institutional Services, LLC (“TC Services”) that sponsors, administers and manages the Program. These investment personnel support the Program as part of an Investment Management Group at APS’ affiliated federal savings bank, TIAA, FSB (the “TIAA, FSB Investment Team”) that APS engages to formulate advice for the Program, subject to its oversight.

Brochure Supplement Eric T. Jones March 30, 2020

This Brochure Supplement provides information about Eric T. Jones, an individual who is on the TIAA, FSB Investment Team that has investment discretionary authority over your assets enrolled in the Program, subject to APS’ oversight. It supplements the attached Disclosure Brochure for the Program. You should have received a copy of that Disclosure Brochure. Please call 866.220.6583 if you did not receive a copy of the Program’s Disclosure Brochure or if you have any questions about the contents of this Brochure Supplement.

Background. Eric is 59 years old as of the date of this Brochure Supplement. His work address is 730 Third Ave, New York, NY 10017. His phone number is 704.988.1000. Eric is interim Chief Investment Officer for TIAA, FSB. He is also Senior Managing Director, Advisory Solutions and Product Development for TIAA Individual Advisory Services and a registered representative of TC Services in support of this role. He also sits on the Board of Directors of TC Services and TIAA-CREF Life Insurance Company. TIAA, FSB’s corporate headquarters are located at 501 Riverside Avenue, Jacksonville, FL 32202, phone 904.281.6000.

Educational Background and Business Experience. Eric joined TIAA, FSB in September 2018 in his current role as interim Chief Investment Officer. At TIAA, he is also Senior Managing Director, Advisory Solutions and Product Development and was previously Senior Managing Director, head of Individual Products. Eric has been at TIAA for 13 years. Prior to TIAA, Eric held a variety of senior roles at UBS Financial Services for over 13 years, including Director of Product Development and Investment Manager Research, Director of Wealth Management Services, and head of product management and development for UBS’ managed account and fee-based products. Prior to that, Eric was a product manager at Kemper Securities for four years. Eric graduated with a BS in Finance from Penn State University.

Disciplinary Information. Eric has no history of disciplinary events.

Other Business Activities. Eric has no other business activities. His full-time occupation is with his roles at TIAA as Interim Chief Investment Officer for TIAA, FSB, Senior Managing Director, Advisory Solutions and Product Development for TIAA Individual Advisory Services (and registered representative of TC Services in support of this role) and Board Member for TC Services and TIAA-CREF Life Insurance Company.

Additional Compensation. Eric is paid a base salary and bonus. Bonus compensation takes into account a number of factors based on Eric’s roles with TIAA, FSB and TIAA Individual Advisory Services, including the overall economic performance of TIAA, the risk adjusted performance of the

portfolio strategies, achieving operational and risk standards, delivering ongoing advisory program and process enhancements demonstrated through customer engagement, and the growth of total assets generated by the advisory sales force. Eric does not receive compensation for providing advisory services from anyone other than his employer.

Supervision. The investment discretion exercised by the TIAA, FSB Investment Team is principally monitored by APS' affiliated federal savings bank, TIAA, FSB, which APS engages to formulate advice for the Program. Senior investment professionals from TIAA, FSB typically meet monthly to review investment-related decisions, policies and procedures and annually to review the investment strategy work of the TIAA, FSB Investment Team. APS exercises oversight as described in the Program's Disclosure Brochure. Eric's supervisor for his role as Chief Investment Officer for TIAA, FSB is Colbert Narcisse, Head of Wealth Management at TIAA at 704.988.1000. Eric's supervisor for his role as Senior Managing Director, Advisory Solutions and Product Development for TIAA Individual Advisory Services is Colbert Narcisse, Senior Managing Director, Head of Wealth Management for TIAA at 704.988.1000. General inquiries regarding accounts, balances, distributions, or any other account administrative features should be directed to the Advisory Consultants that support the Program.

Brochure Supplement
Richard Robinson
March 30, 2020

This Brochure Supplement provides information about Richard Robinson, an individual who is on the TIAA, FSB Investment Team that has investment discretionary authority over your assets enrolled in the Program, subject to APS' oversight. It supplements the attached Disclosure Brochure for the Program. You should have received a copy of that Disclosure Brochure. Please call 866.220.6583 if you did not receive a copy of the Program's Disclosure Brochure or if you have any questions about the contents of this Brochure Supplement.

Background. Richard is 50 years old as of the date of this Brochure Supplement. His work address is 8500 Andrew Carnegie Boulevard, Charlotte, NC 28262. His phone number is 704.988.1000. Richard is Head of Trust Services and Chief Fiduciary Officer for TIAA, FSB. He is also Chair of the Investment Oversight and Control Sub-Committee and Interim Chair of the Investment Committee at TIAA, FSB. TIAA, FSB's corporate headquarters are located at 501 Riverside Avenue, Jacksonville, FL 32202, phone 904.281.6000.

Educational Background and Business Experience. Richard joined TIAA, FSB in March 2014. At TIAA, he has also held the role of Director of Business Supervision and Controls and became Managing Director in this role in 2018. Richard has over 15 years of supervision and oversight experience. Prior to TIAA, Richard was a Senior Compliance Manager with Bank of America and a Compliance and Oversight Manager with General Electric Asset Management. Richard graduated with a B.A. in General Studies from the University of Connecticut and a J.D. from Quinnipiac University.

Disciplinary Information. Richard has no history of disciplinary events.

Other Business Activities. Richard has no other business activities. His full-time occupation is Head of Trust Services and Chief Fiduciary Officer for TIAA, FSB.

Additional Compensation. Richard is paid a base salary and bonus. Bonus compensation takes into account a number of factors, including the overall economic performance of TIAA and Richard's

individual performance in achieving the goals established for his role at TIAA, FSB. Richard does not receive compensation for providing advisory services from anyone other than his employer.

Supervision. The investment discretion exercised by the TIAA, FSB Investment Team is principally monitored by APS' affiliated federal savings bank, TIAA, FSB, which APS engages to formulate advice for the Program. Senior investment professionals from TIAA, FSB typically meets monthly to review investment-related decisions, policies and procedures and annually to review the investment strategy work of the TIAA, FSB Investment Team. APS exercises oversight as described in the Program's Disclosure Brochure. Richard's supervisor is Bill Griesser, Head of Individual Solutions at TIAA Financial Services at 704.988.1000. General inquiries regarding accounts, balances, distributions, or any other account administrative features should be directed to the Advisory Consultants that support the Program.

Brochure Supplement
T. Todd Starcher
March 30, 2020

This Brochure Supplement provides information about T. Todd Starcher, an individual who is on the TIAA, FSB Investment Team that has investment discretionary authority over your assets enrolled in the Program, subject to APS' oversight. It supplements the attached Disclosure Brochure for the Program. You should have received a copy of that Disclosure Brochure. Please call 866.220.6583 if you did not receive a copy of the Program's Disclosure Brochure or if you have any questions about the contents of this Brochure Supplement.

Background. Todd is 45 years old as of the date of this Brochure Supplement. His work address is 8500 Andrew Carnegie Boulevard, Charlotte, NC 28262. His phone number is 704.988.1000. Todd is a Senior Director, Portfolio Construction for TIAA, FSB. TIAA, FSB's corporate headquarters are located at 501 Riverside Avenue, Jacksonville, FL 32202, phone 904.281.6000.

Educational Background and Business Experience. Todd joined TIAA, FSB in August 2009. At TIAA, he has also held the roles of Senior Portfolio Strategist in addition to his current role of Senior Director, Portfolio Construction. Prior to TIAA, Todd worked as Vice President and Alternative Investment Product Manager for Evergreen Investments for 1 year. Prior to that, Todd worked as Vice President and Asset Allocation Strategist for Evergreen Investments for five years. Todd graduated with a Bachelor of Science from Palm Beach Atlantic University in 1997. Todd attained the Chartered Financial Analyst, or CFA designation, in 2003; this designation requires completion of a three-stage self-study curriculum and achieving a passing score on three progressive exams. It prepares the holder to analyze securities and recommend portfolios.

Disciplinary Information. Todd has no history of disciplinary events.

Other Business Activities. Todd has no other business activities. His full-time occupation is as a Senior Director, Portfolio Construction for TIAA, FSB.

Additional Compensation. Todd is paid a base salary and bonus. Bonus compensation takes into account a number of factors, including the overall economic performance of TIAA, the performance of the portfolio strategies, achieving operational and risk standards, and delivering ongoing advisory program and process enhancements demonstrated through customer engagement. Todd does not receive compensation for providing advisory services from anyone other than his employer.

Supervision. The investment discretion exercised by the TIAA, FSB Investment Team is principally

monitored by APS' affiliated federal savings bank, TIAA, FSB, which APS engages to formulate advice for the Program. Senior investment professionals from TIAA, FSB typically meets monthly to review investment-related decisions, policies and procedures and annually to review the investment strategy work of the TIAA, FSB Investment Team. APS exercises oversight as described in the Program's Disclosure Brochure. Todd's supervisor is Eric T. Jones, interim Chief Investment Officer for TIAA, FSB at 704.988.1000. General inquiries regarding accounts, balances, distributions, or any other account administrative features should be directed to the Advisory Consultants that support the Program.

Brochure Supplement
Vladimir Valenta
March 30, 2020

This Brochure Supplement provides information about Dr. Vladimir Valenta, an individual who is on the TIAA, FSB Investment Team that has investment discretionary authority over your assets enrolled in the Program, subject to APS' oversight. It supplements the attached Disclosure Brochure for the Program. You should have received a copy of that Disclosure Brochure. Please call 866.220.6583 if you did not receive a copy of the Program's Disclosure Brochure or if you have any questions about the contents of this Brochure Supplement.

Background. Vladimir is 50 years old as of the date of this Brochure Supplement. His work address is 8500 Andrew Carnegie Boulevard, Charlotte, NC 28262. His phone number is 704.988.1000. Vladimir is a Senior Director of Asset Allocation and Quantitative Research for TIAA, FSB. TIAA, FSB's corporate headquarters are located at 501 Riverside Avenue, Jacksonville, FL 32202, phone 904.281.6000.

Educational Background and Business Experience. Vladimir joined TIAA, FSB in 2012. At TIAA, he has also held the roles of Director of Asset Allocation and Quantitative Research in addition to his current role as Senior Director of Asset Allocation and Quantitative Research. Prior to that, Vladimir held a position as the Head of Quantitative Research at Round Table Investment Management, a multi-strategy hedge fund in Charlotte. Before joining Round Table Investment, Vladimir spent five years as Senior Vice President at Bank of America. Prior to that, Vladimir served as a Chief Scientist at Retek (later acquired by Oracle). Vladimir received an M.S. in Math and Computer Science from Charles University, Prague, Czech Republic; and a Ph.D. in Computer Science from University of South Carolina.

Disciplinary Information. Vladimir has no history of disciplinary events.

Other Business Activities. Vladimir has no other business activities. His full-time occupation is as a Senior Director of Asset Allocation and Quantitative Research for TIAA, FSB.

Additional Compensation. Vladimir is paid a base salary and bonus. Bonus compensation takes into account a number of factors, including the overall economic performance of TIAA, the performance of the portfolio strategies, achieving operational and risk standards, and delivering ongoing advisory program and process enhancements demonstrated through customer engagement. Vladimir does not receive compensation for providing advisory services from anyone other than his employer.

Supervision. The investment discretion exercised by the TIAA, FSB Investment Team is principally monitored by APS' affiliated federal savings bank, TIAA, FSB, which APS engages to formulate advice for the Program. Senior investment professionals from TIAA, FSB typically meets monthly to review investment-related decisions, policies and procedures and annually to review the investment strategy

work of the TIAA, FSB Investment Team. APS exercises oversight as described in the Program's Disclosure Brochure. Vladimir's supervisor is Eric T. Jones, interim Chief Investment Officer for TIAA, FSB at 704.988.1000. General inquiries regarding accounts, balances, distributions, or any other account administrative features should be directed to the Advisory Consultants that support the Program.

Brochure Supplement
Walter Joyce
March 30, 2020

This Brochure Supplement provides information about Walter Joyce, an individual who is on the TIAA, FSB Investment Team that has investment discretionary authority over your assets enrolled in the Program, subject to APS' oversight. It supplements the attached Disclosure Brochure for the Program. You should have received a copy of that Disclosure Brochure. Please call 866.220.6583 if you did not receive a copy of the Program's Disclosure Brochure or if you have any questions about the contents of this Brochure Supplement.

Background. Walter is 48 years old as of the date of this Brochure Supplement. His work address is 8500 Andrew Carnegie Boulevard, Charlotte, NC 28262. His phone number is 704.988.1000. Walter is Managing Director of Investment Services for TIAA, FSB. TIAA, FSB's corporate headquarters are located at 501 Riverside Avenue, Jacksonville, FL 32202, phone 904.281.6000.

Educational Background and Business Experience. Walter has more than 19 years of financial services experience and has held several senior leadership positions, including six years as the COO of an institutional brokerage and asset management firm in New York and four years heading up Equity Capital Markets in charge of Research and Equities trading. Additionally, he spent four years both as an investment manager and consultant to various wealth managers. Walter holds a B.S. in Management from the University of Alabama and an M.B.A. in Finance from Thunderbird Graduate School of International Management.

Disciplinary Information. Walter has no history of disciplinary events.

Other Business Activities. Walter has no other business activities. His full-time occupation is as Managing Director of Investment Services for TIAA, FSB.

Additional Compensation. Walter is paid a base salary and bonus. Bonus compensation takes into account a number of factors, including the overall economic performance of TIAA, the performance of the portfolio strategies, achieving operational and risk standards, and delivering ongoing advisory program and process enhancements demonstrated through customer engagement. Walter does not receive compensation for providing advisory services from anyone other than his employer.

Supervision. The investment discretion exercised by the TIAA, FSB Investment Team is principally monitored by APS' affiliated federal savings bank, TIAA, FSB, which APS engages to formulate advice for the Program. Senior investment professionals from TIAA, FSB typically meets monthly to review investment-related decisions, policies and procedures and annually to review the investment strategy work of the TIAA, FSB Investment Team. APS exercises oversight as described in the Program's Disclosure Brochure. Walter's supervisor is Eric T. Jones, interim Chief Investment Officer for TIAA, FSB at 704.988.1000. General inquiries regarding accounts, balances, distributions, or any other account administrative features should be directed to the Advisory Consultants that support the Program.

Brochure Supplement
Michael Sowa
March 30, 2020

This Brochure Supplement provides information about Michael Sowa, an individual who is on the TIAA, FSB Investment Team that has investment discretionary authority over your assets enrolled in the Program, subject to APS' oversight. It supplements the attached Disclosure Brochure for the Program. You should have received a copy of that Disclosure Brochure. Please call 866.220.6583 if you did not receive a copy of the Program's Disclosure Brochure or if you have any questions about the contents of this Brochure Supplement.

Background. Michael is 43 years old as of the date of this Brochure Supplement. His work address is 8500 Andrew Carnegie Boulevard, Charlotte, NC 28262. His phone number is 704.988.1000. Michael is a Senior Director of Manager Research for TIAA, FSB. TIAA, FSB's corporate headquarters are located at 501 Riverside Avenue, Jacksonville, FL 32202, phone 904.281.6000.

Educational Background and Business Experience. Michael joined TIAA, FSB in August 2011. At TIAA, he has also held the role of Senior Associate in addition to his current role of Senior Director of Manager Research. Prior to TIAA, Michael worked as Vice President, Senior Investment Analyst for Envestnet Asset Management for four years. Prior to that, Michael worked as Senior Analyst for National Planning Holdings for two years, as well as a Research Analyst for Lipper for three years. Michael graduated with a Bachelor of Science from American International College in 1999 and a MSc in Finance & Investments from the University of Edinburgh, Scotland in 2005. Michael attained the Chartered Alternative Investment Analyst, or CAIA designation, in 2007; this designation requires completion of a two stage self-study curriculum and achieving a passing score on two progressive exams.

Disciplinary Information. Michael has no history of disciplinary events.

Other Business Activities. Michael has no other business activities. His full time occupation is as a Director of Manager Research for TIAA, FSB.

Additional Compensation. Michael is paid a base salary and bonus. Bonus compensation takes into account a number of factors, including the overall economic performance of TIAA, the performance of the portfolio strategies, achieving operational and risk standards, and delivering ongoing advisory program and process enhancements demonstrated through customer engagement. Michael does not receive compensation for providing advisory services from anyone other than his employer.

Supervision. The investment discretion exercised by the TIAA, FSB Investment Team is principally monitored by APS' affiliated federal savings bank, TIAA, FSB, which APS engages to formulate advice for the Program. Senior investment professionals from TIAA, FSB typically meets monthly to review investment-related decisions, policies and procedures and annually to review the investment strategy work of the TIAA, FSB Investment Team. APS exercises oversight as described in the Program's Disclosure Brochure. Michael's supervisor is Eric T. Jones, interim Chief Investment Officer for TIAA, FSB at 704.988.1000. General inquiries regarding accounts, balances, distributions, or any other account administrative features should be directed to the Advisory Consultants that support the Program.

Summary of Material Changes to

Advice & Planning Services

TIAA Personal Portfolio Wrap Fee Program Disclosure Brochure

Form ADV Part 2A

This document contains a summary of the material changes made to the Advice & Planning Services' ("APS") TIAA Personal Portfolio Wrap Fee Disclosure Brochure (the "Disclosure Brochure") since its last annual update on March 27, 2019. This document describes only the material changes.

You can obtain a full copy of the updated Disclosure Brochure free of charge by navigating to <https://www.tiaa.org/public/brokerage/custsvce/forms.html> or by calling (800) 927-3059. TIAA-CREF Individual & Institutional Services, LLC, as a registered investment adviser with the Securities and Exchange Commission, is required to deliver this document to you. All capitalized terms used (but not defined) below have the same meaning as stated in the Disclosure Brochure.

As of March 30, 2020

Item 4 (Services, Fees and Compensation):

- *Securities Transferred into Program Account for Funding.* Item 4 was revised to clarify how clients can use securities to fund their Program account and how the Program will treat such securities.
- *Discretionary Authority.* Item 4 was amended to reflect that in the event of a client's death, the services under the Program will continue and the Program Fee will be charged until APS receives a request for distribution from any of the client's beneficiaries or notice from their executor to terminate the account.
- *Execution Practices.* Item 4 was updated to clarify that TIAA Brokerage Services executes all trades for the program through its clearing broker, Pershing, LLC and that TC Services has adopted a Best Execution Policy to monitor Pershing's execution of its trades.
- *Trade Errors.* Item 4 was revised to reflect that the Program will use reasonable efforts to identify and resolve trade errors as promptly as possible. Any such errors will be resolved on a case-by-case basis, in the Program's discretion, and based on the facts and circumstances. While the Program is not obligated to follow any single method of resolving errors, it will seek to treat all clients fairly.
- *Bank Sweep.* Item 4 was revised to reflect additional procedures adopted to address the conflict of interest associated with the use of the Affiliate Bank Sweep, such as targeting client portfolio allocations to cash at 1% (subject to market fluctuation).
- *Special Considerations regarding Individual Retirement Accounts.* Item 4 was revised to clarify that APS benefits when clients move funds from their employer sponsored retirement plan to a Program account and the conflicts of interest associated with the recommendation to do so. The Program seeks to mitigate this conflict by disclosing it, by requiring Advisors to discuss clients' options when

making a rollover recommendation, and by requiring that rollover transactions be reviewed as required by applicable regulatory standards to determine whether they are appropriate to meet clients' financial needs.

- *Program Fees.* Item 4 was revised to reflect that the following costs associated with certain services requested by clients are excluded from the Program Fee: wire or electronic fund transfer fees, overnight delivery fees, duplicate statement fees, account transfer fees, reorganization fees, administrative fees, agent servicing fees, direct registration fees, dividend reinvestment fees, extension fees, foreign dividend/custody/settlement fees, returned check fees, share class exchange fees, statement paper surcharge fees, special product fees, stop payment fees, termination fees, voluntary reorganization fees, or any contingent deferred sales charges that may be incurred upon the sale of a security transferred into the Program account at clients' request.
- *Compensation of TC Services' Personnel.* Item 4 was revised to reflect that investment adviser representatives by phone, referred to as Advisory Consultants, serve as the primary points of contact for Program clients. If a client is an Individual Advisory Services client they may have an investment advisor representative available in person, referred to as Wealth Management Advisers. It was also revised to reflect how Advisory Consultants, Wealth Management Advisers and managers of other TC Services' representatives are compensated and the conflicts of interest related to those arrangements.

Item 5 (Account Requirements and Types of Clients):

- *Termination.* Item 5 was revised to explain that upon termination of a client's Program account APS' decision to transfer the assets into a separate, self-directed TIAA Brokerage Services account instead of redeeming and mailing a check to a client creates a conflict of interest because it allows APS to keep the funds within TIAA products and investments, including the TIAA-CREF family of Funds and the Affiliate Bank Sweep, for which it earns money, and within other third party investments for which TC Services may earn compensation. APS seeks to mitigate this conflict by providing clients with notification and the option to direct a transfer or liquidation of their assets. Additionally, it was revised to reflect that any liquidations resulting from a client's instruction to terminate and liquidate their Program account may not occur until two business days following receipt of the instruction. Extreme market volatility and in process trades could impact this timing.

Item 6 (Portfolio Manager Selection and Evaluation):

- *Investment Risks.* Item 6 was updated to make clients aware of additional risks associated with the Program, such as Market Risk and Global Economic Risk. It was also revised to clarify risks associated with mutual funds and ETFs, liquidity and concentration in the Program.
- *Voting Client Securities.* Item 6 was updated to clarify that proxies are voted by the TIAA Responsible Investing team that follows certain procedural guidelines in voting proxies and resolving any identified conflicts of interest. The Program reviews the proxy voting practices of TIAA's Responsible Investing team periodically to ensure that they are acting in clients' best interests.